ORDER NO. VMD9806035C8

Service Manual

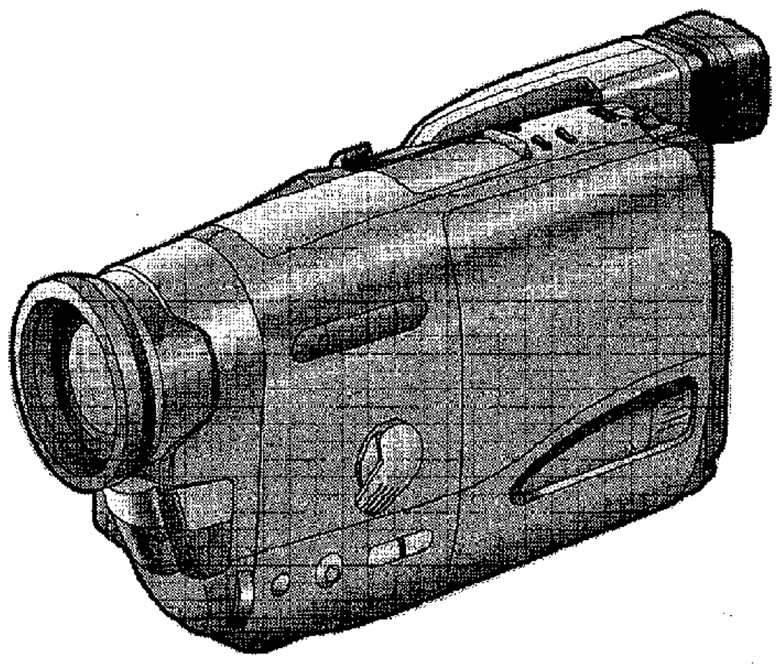
Panasonic VHS C PAL

HQ

VHS-C Movie

NV-RX31B
NV-RX33EG/A/EN

DL-MECHANISM



SPECIFICATIONS

ITEM	SPECIFICATION
POWER	Source: Battery Pack; 4.8 V DC AC Adaptor; 6.0 V DC Consumption; 5.1 W (Battery operation)
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL
TAPE FORMAT	VHS-C Cassette Tape (Tape width 12.7 mm)
TAPE SPEED	SP mode: 23.39 mm/s LP mode: 11.7 mm/s (Except NV-RX33EG) Record/Playback Time: SP mode: 1 hour with EC60 LP mode: 2 hours with EC60 (Except NV-RX33EG)
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)
	STANDARD ILLUMINATION: 1,400 lux
	MINIMUM REQUIRED ILLUMINATION: 0.5 Lux (Low Light Mode)
	LENS: 21 : 1 Wide-angle Power Zoom Lens with Digital AI Auto Focus, Auto Iris, Auto Focus System, F1.6 (3.8—79.8 mm), Filter Diameter 43 mm
	IMAGE SENSOR: 1/4 inch CCD Image Sensor
	FINDER: 0.5-inch Colour LCD Finder

ITEM	SPECIFICATION
VIDEO	HEADS: 4 rotary heads, 1 flying erase head
	OUTPUT: PHONO CONNECTOR; 1.0 Vp-p 75Ω unbalanced
AUDIO	HEAD: 1 Stationary head (Normal-Mono)
	OUTPUT: PHONO CONNECTOR; —6 dB, 47 kΩ loaded/less than 1 kΩ
OPERATING TEMPERATURE	0~40℃
OPERATING HUMIDITY	10~80%
WEIGHT	Approx. 715 g (without Battery Pack)
DIMENSIONS	91 (W)×124 (H)×269 (D) mm
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor 1 pc. Shoulder Strap 1 pc. DC Input Cable 1 pc. Battery for Cassette Adaptor Operation 1 pc. AC Cable 1 pc. AV Output Cable 1 pc. 21 pin Adaptor (for NV-RX33EG) 1 pc. Remote Controller

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION 1

This service manual contains technical information which will allow service personnel's to understand and service the VHS-C Movie model NV-RX31/33 series.
This Service manual is based on NV-RX21/22 series.
So,please refer to the descriptions which are shown in
NV-RX21/22 series Service Manual Order No. **:VMD9801001C8**

Note 1 :Adjustment procedure for Mechanism-Chassis is separate volume.
Please refer to following manual for detail of adjustment procedure for Mechanism-Chassis.
Order number for adjustment procedure of Mechanism-Chassis : VMD9412M130

Note 2 : Thses movie camera uses AC Adaptor VSK0317D
The Service manual for AC Adaptor is separate volume.
Order number for AC Adaptor----VSK0317D **:VMD9412M130**

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1. COMPARISON CHART

1.Comparison Chart for NV-RX21/22 & NV-RX31/33

This Chart described different part from the original model to new model as shown below.

Original Model : NV-RX21/22
New Model : NV-RX31/33

Note: IMPORTANT NOTICE
Components identified with <!> have special characterristics for safty.
When replacing any these components, use only the same parts.

Comparison Chart for NV-RX21/RX22 & NV-RX33

Comparison chart of of mechanical replacement Parts. <A>...Added, <C>...Changed, <D>...Deleted.

Ref.No.	Parts No.for NV-RX21/22	Parts No.for NV-RX31/33	Pcs/ Set	Parts name & description	Remaks	
41 (5)		VEG1175	1	CYLINDER U	NV-RX33EN/A,RX31B	
41 (5)		VEG1174	1	CYLINDER U	EXCEPT NV-RX33EG	
301 (5)	VYK8075	VYQ1559	1	EYE CAP HOLDER U		<C>
302 (5)	VMG0631	VMG1146	1	EYE CAP		<C>
304 (5)	VYK8074	VYK8429	1	EVF CASE (R) U		<C>
305 (5)	VKM4836	VKM4972	1	EVF CASE (L) U		<C>
306 (5)	VEE0C47	VEE0C46	1	CONNECTOR U		<C>
307 (5)	VMZ2792	VMZ2825	1	EVF ROTARY SEC BARRIER		<C>
326 (5)	VGQ4749	VGQ4893	1	EVF FIXING PIECE		<C>
332 (5)	VKF2828	VKF2930	1	AV JACK COVER		<C>
329 (5)	VMX2713	VMX2790	1	SPACER SHEET		<C>
336 (5)	VYK8240	VYK8454	1	CASSETTE COVER (1) U	NV-RX31	<C>
336 (5)	VYK8240	VYK8454	1	CASSETTE COVER (1) U	NV-RX33	<C>
350 (5)	VEK8379	VEK8380	1	REAR CASE U		<C>
354 (5)	————	LCX005BKR	0-1	LCD U		<A>
355 (5)	————	VJF1276	0-1	LCD HOLDER PIECE		<A>
356 (6)	————	VGQ4909	0-1	CASE HOLDER		<A>
652 (6)	VPN4801	VPN4870	1	CUSHION		<C>
653 (6)	————	VPG9455	0-1	PACKNG	NV-RX33EG	<A>
		VPG9456	0-1	PACKNG	NV-RX31B	<A>
		VPG9457	0-1	PACKNG	NV-RX33EN	<A>
		VPG9458	0-1	PACKNG	NV-RX33A	
<!> 655 (5)	————	VJA1039	0-1	AC CORD	NV-RX33EG/EI	<C>
<!> 656 (6)	————	VJA0754	0-1	AC CORD	NV-RX33A	<C>
	————	VJA0940	0-1	AC CORD	NV-RX31B	
659 (5)	VPN4805	VPN4858	1	ACCESSORIES BOX		<C>
<!> 660 (5)	————	VQT7528	0-1	OPERATION INSTRUCTIONS (ENGLISH)	NV-RX31B	<A>
<!> 660 (5)		VQT7526	0-1	OPERATION INSTRUCTIONS (GERMAN/ENGLISH/FREANCH SPANISH)	NV-RX33EG	<A>
<!> 660 (5)		VQT7527	0-1	OPERATION INSTRUCTIONS (ITALIAN/DUTCH/SWEDISH DANISH)	NV-RX33EG	<A>
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<!> 660 (5)		VQT7525	0-1	OPERATION INSTRUCTIONS (ENGLISH)	NV-RX33A	<A>

Comparison chart of Electrical replacement Parts. <A>...Added, <C>...Changed, <D>...Deleted.

Ref.No.	Parts No.for NV-RX21/22	Parts No.for NV-RX31/33	Pcs/ Set	Parts name & description	Remaks
	VEP23449B	VEP23449F	1	CAMERA/MAIN C.B.A	<C>
	————	VEP28249A	0-1	E.V.F.(A) C.B.A	<A>
	————	VEP28250A	0-1	E.V.F.(B) C.B.A	<A>
	————	VEP28251A	0-1	E.V.F.(C) C.B.A	<A>
	VEP28253A	————	1-0	E.V.F C.B.A	<D>

2. The Built-in Lithium Battery

Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. This has occurred if the [⊗] Indication in the Finder flashes when you turn on the Movie Camera. In this case, perform the following operations.

■ Charging the Built-in Lithium Battery and Other Required Operations

1 Connect the AC Adaptor to the mains and to the Movie Camera.

2 Leave the Movie Camera turned off.

- Although charging the lithium battery is possible with the Movie Camera turned on or off, we recommend to keep it turned off to conserve energy.

3 Leave the Movie Camera in this condition for approximately 4 hours.

- Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 1 month, charging for 26 hours (full charge) maintains it for approximately 1 year.

4 Set the clock to the current date and time.

3. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1.Remove the Rear Case Unit.

(Remove the 1 Screw from Rear Frame)

2.Remove the Lithium battery "ML2020" and then replace the new one. (See Fig.B1)

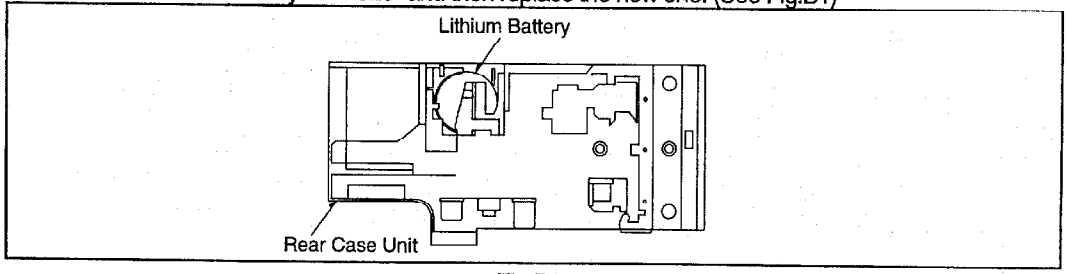


Fig.B1

NOTE:

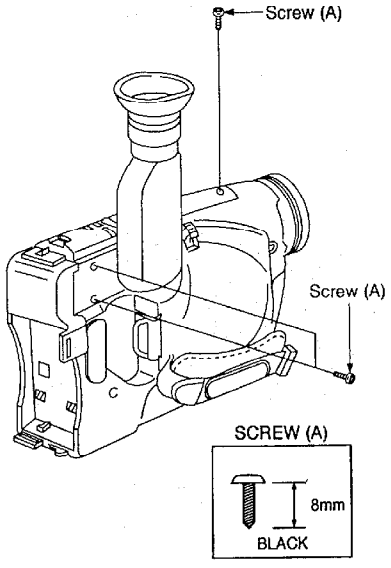
The lithium battery is a critical component(Type No.: ML2020 Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

4. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	ITEM / PART	FIG.	REMOVAL (SCREW)
1	Side Case (L) Unit	Fig. 1	3-SCREW (A)
		Fig. 2	5-SCREW (B)
		Fig. 3	2-LOCKING TAB (a) Slightly open the Side Case (L) Unit. Disconnect P1001 and FP6004.
2	EVF Unit	Fig. 4	4-LOCKING TAB (b)
3	Cassette Cover	Fig. 5	2-SCREW (C)
4	Side Case (R) Unit with Top Operation Panel	Fig. 6	1-SCREW (D)
		Fig. 2	2-SCREW (E)
		Fig. 6	4-LOCKING TAB (c) Slightly open the Side Case (R) Unit with Top Operation Panel. Disconnect FP6003 and FP6006.
5	Front Case Unit	Fig. 6	3-LOCKING TAB (d) Disconnect P4103.
6	Rear Case Unit	Fig. 7	1-SCREW (F) Disconnect PS1003,PS3009 and FP6005. 1-LOCKING TAB (e)
7	Main C.B.A.	Fig. 7	1-SCREW (G) 1-SCREW (H) Remove the Shield Case for the Head AMP. Disconnect the following connectors; FP5001, FP6001, FP6002, PP201, FP4001, FP2001, FP2002, FP701.
8	Lens Unit	Fig. 8	2-SCREW (I)
9	Mechanism Unit	Fig. 8	1-SCREW (J) 1-SCREW (K)
10	EVF C.B.A.	Fig. 9	Push the locking portion then pull the eye cap holder.
			Push the locking portion then pull the case holder.
		Fig. 10	1-SCREW (L) 1-SCREW (M)
		Fig. 11	1-SCREW (N)
		Fig. 12	Disconnect the following connectors; FP803, P801, PP802, P804

(1)



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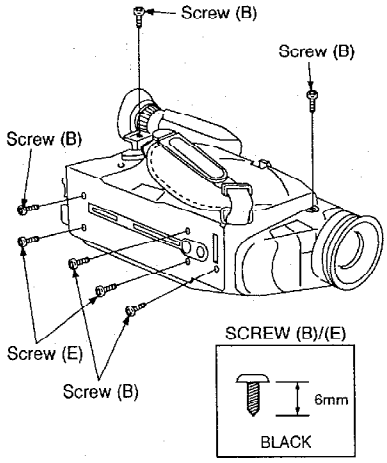

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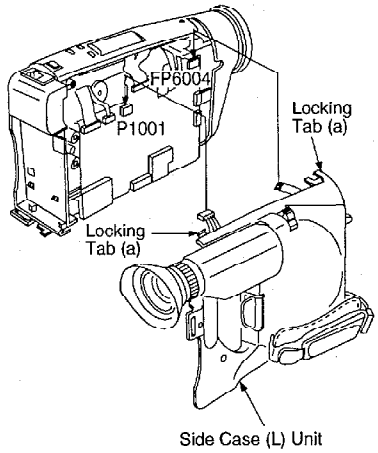

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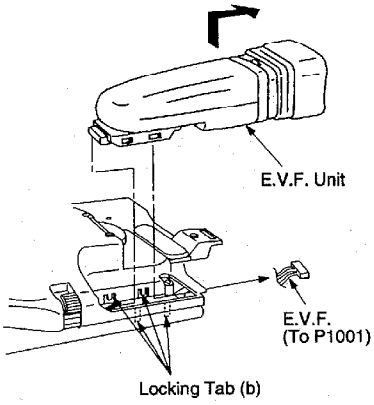

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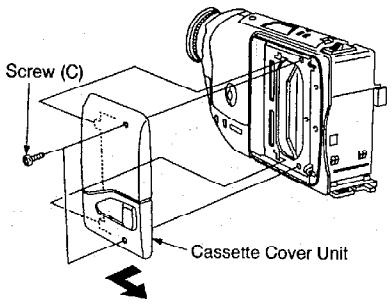
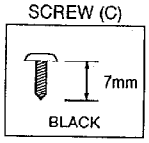


SCREW (C)



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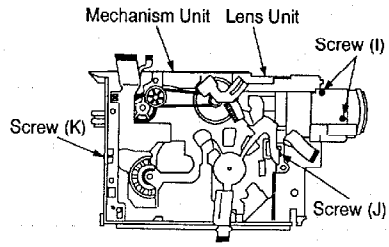

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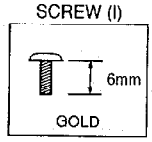

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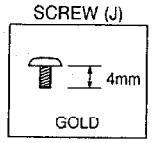

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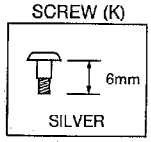

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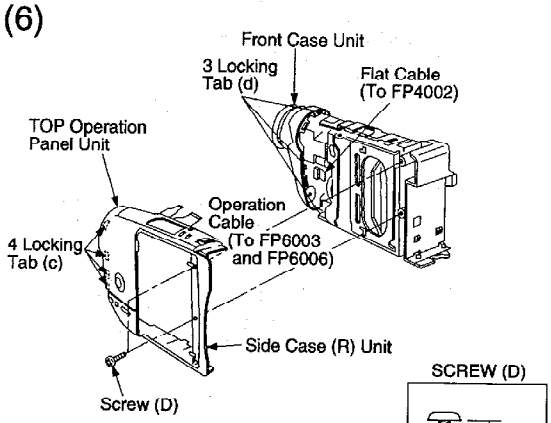

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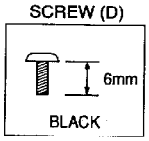

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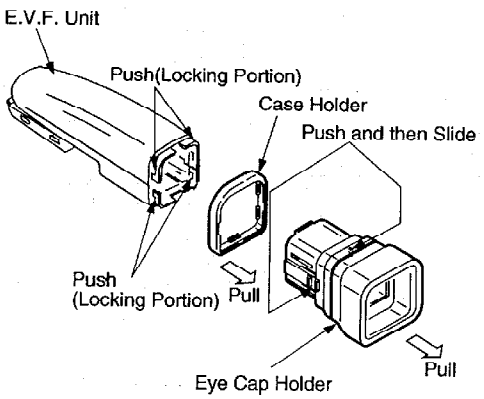

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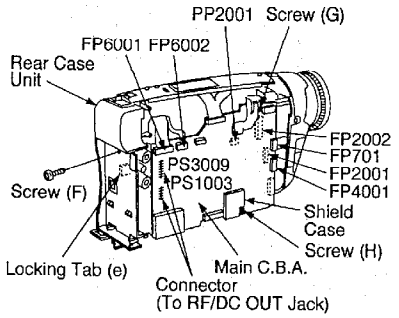

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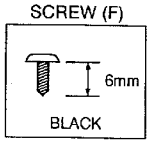

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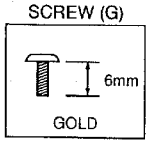

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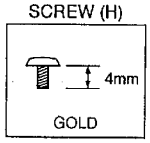

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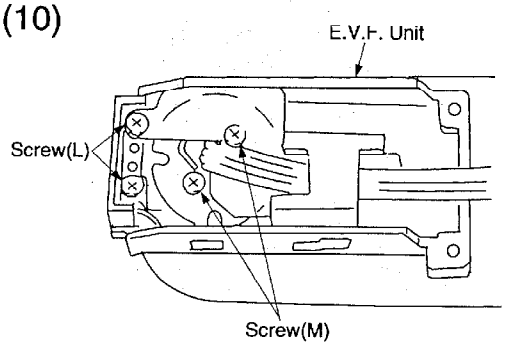

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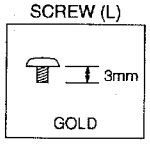

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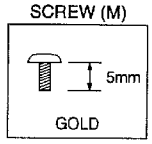
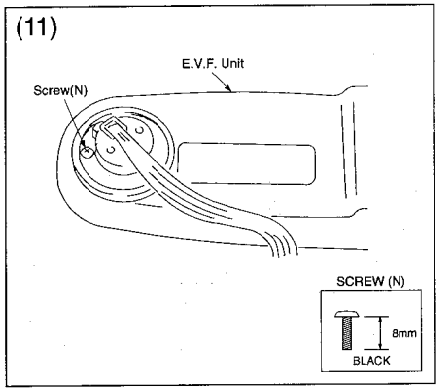
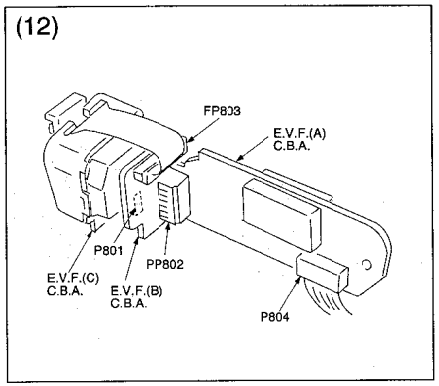






5. ELECTRICAL ADJUSTMENT PROCEDURE FOR E.V.F. SECTION FOR NV-RX31/RX33 SERIES

The following Equipment are required for adjustment of the Electric Viewfinder.

1. Test chart: Gray Scale chart/Color Bar Chart.
2. Tools : Plastic Tip driver

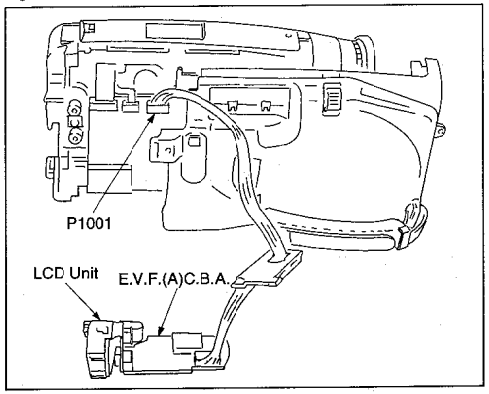
The following adjustment are Electric Viewfinder.

Preparation:	(A). Remove the Casing panels(Please refar to Fig.E1) (B). The camera unit must be completely aligned before viewfinder adjustmert. (C). Please set the Color VR,Brightness VR to Center position. (D).Please turn off the demo mode for digital function, procedure for turn off the demo mode is as follows. Turn the Power sw within push the Stop key on Operation Panel. (If turn on the Power Sw within push the Play key,unit goes to Demo mode on)

ADJUSTMENT FOR MONITOR SECTION

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.POWER VOLTAGE	1. Connect the Digital Vot meter to CL804.	———	CL804	1.Turn VR809 so that the voltage at CL804 become 11.98±0.05V
2.PICTURE CENTERING	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL807.	Gray Scale Chart	CL807	1.Turn VR808 so that T1 = T2±0.1usec. (Please refer to Fig.E2)
3.PEDESTAL LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR810 so that "A" level become 2.3±0.1V. (Please refer to Fig.E3)
4.COLOR G LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR802 so that "A" level become 2.0±0.1V. (Please refer to Fig.E4)
5.TINT	1.Aim the Camera at Color Bar Chart. 2. Connect the oscilloscope to CL801.	Color Bar Chart	CL801	Adjust the VR803/VR804 so that the level of cyan,Green,Blue becomes equal. (Please refer to Fig.E5)
6.WHITE BALANCE	1.Aim the Camera at Color Bar Chart.	Color Bar Chart	E.V.F	Adjust the VR805/VR806 so that the white balance on the EVF screen become best position.

Fig. E1-1 : Preparation of Colour E.V.F. Adjustment



Note : Trigger for the Oscilloscope
To Trigger the Oscilloscope, following test point is used.

H rate : Vdeo Output
V rate : PP3001-32(Head Amp Switching Pulse)

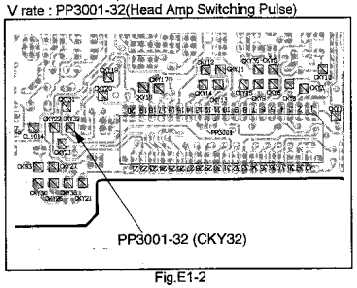


Fig.E1-2

PICTURE CENTERING

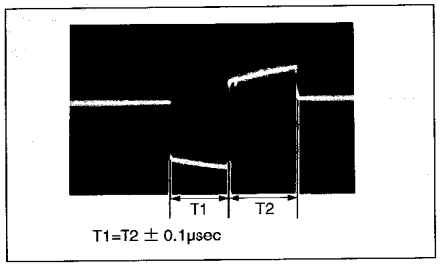


Fig. E2

PEDESTAL LEVEL

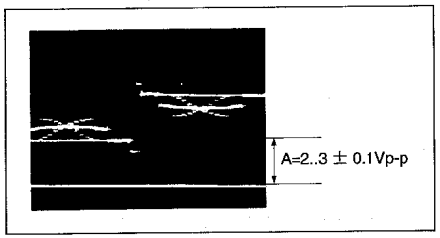


Fig. E3

COLOUR G LEVEL

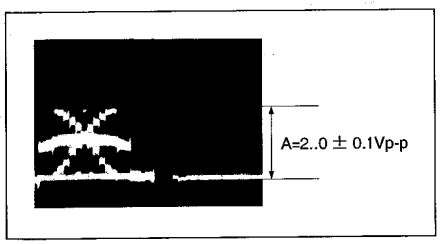


Fig. E4

TINT

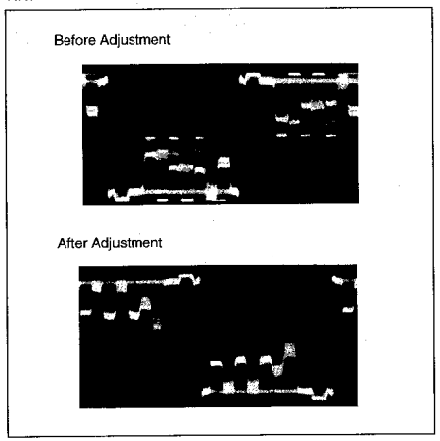
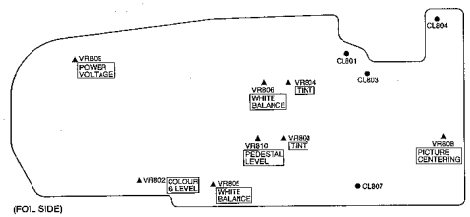
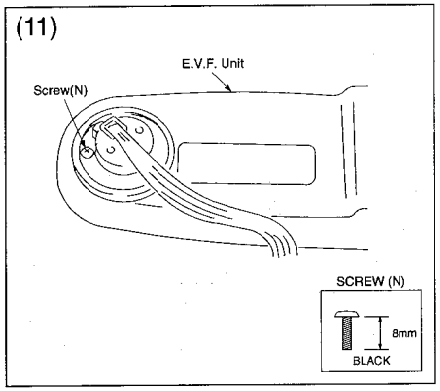
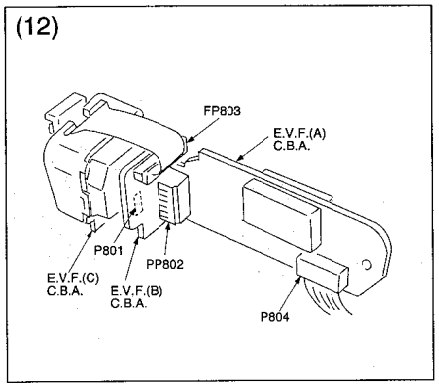


Fig. E5

LOCATION OF TEST POINTS & CTLS
<E.V.F. (A) C.B.A.>







5. ELECTRICAL ADJUSTMENT PROCEDURE FOR E.V.F. SECTION FOR NV-RX31/RX33 SERIES

The following Equipment are required for adjustment of the Electric Viewfinder.

1. Test chart: Gray Scale chart/Color Bar Chart.
2. Tools : Plastic Tip driver

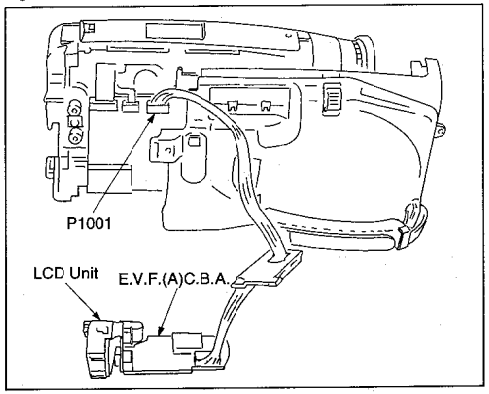
The following adjustment are Electric Viewfinder.

Preparation:	(A). Remove the Casing panels(Please refar to Fig.E1) (B). The camera unit must be completely aligned before viewfinder adjustmert. (C). Please set the Color VR,Brightness VR to Center position. (D).Please turn off the demo mode for digital function, procedure for turn off the demo mode is as follows. Turn the Power sw within push the Stop key on Operation Panel. (If turn on the Power Sw within push the Play key,unit goes to Demo mode on)

ADJUSTMENT FOR MONITOR SECTION

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.POWER VOLTAGE	1. Connect the Digital Vot meter to CL804.	———	CL804	1.Turn VR809 so that the voltage at CL804 become 11.98±0.05V
2.PICTURE CENTERING	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL807.	Gray Scale Chart	CL807	1.Turn VR808 so that T1 = T2±0.1usec. (Please refer to Fig.E2)
3.PEDESTAL LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR810 so that "A" level become 2.3±0.1V. (Please refer to Fig.E3)
4.COLOR G LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR802 so that "A" level become 2.0±0.1V. (Please refer to Fig.E4)
5.TINT	1.Aim the Camera at Color Bar Chart. 2. Connect the oscilloscope to CL801.	Color Bar Chart	CL801	Adjust the VR803/VR804 so that the level of cyan,Green,Blue becomes equal. (Please refer to Fig.E5)
6.WHITE BALANCE	1.Aim the Camera at Color Bar Chart.	Color Bar Chart	E.V.F	Adjust the VR805/VR806 so that the white balance on the EVF screen become best position.

Fig. E1-1 : Preparation of Colour E.V.F. Adjustment



Note : Trigger for the Oscilloscope
To Trigger the Oscilloscope, following test point is used.

H rate : Vdeo Output
V rate : PP3001-32(Head Amp Switching Pulse)

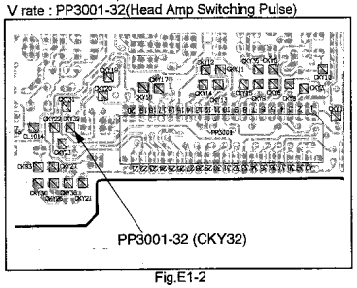


Fig.E1-2

PICTURE CENTERING

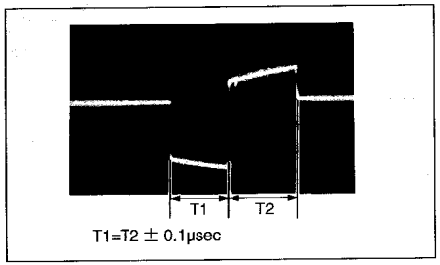


Fig. E2

PEDESTAL LEVEL

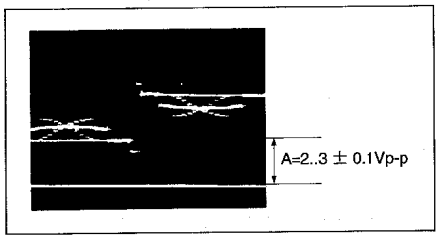


Fig. E3

COLOUR G LEVEL

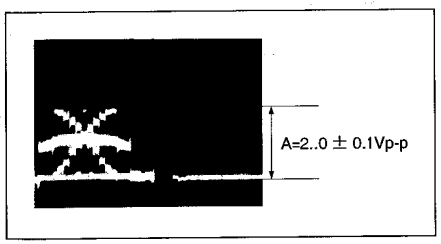


Fig. E4

TINT

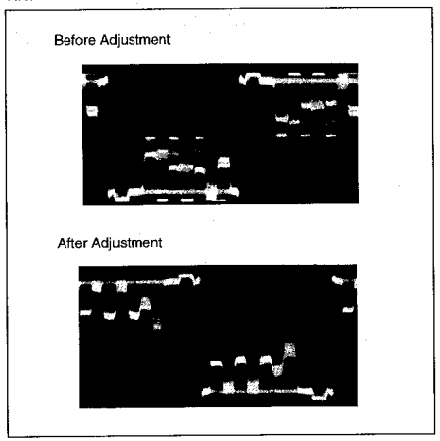
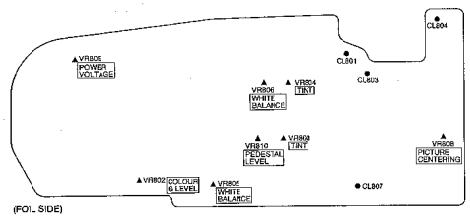
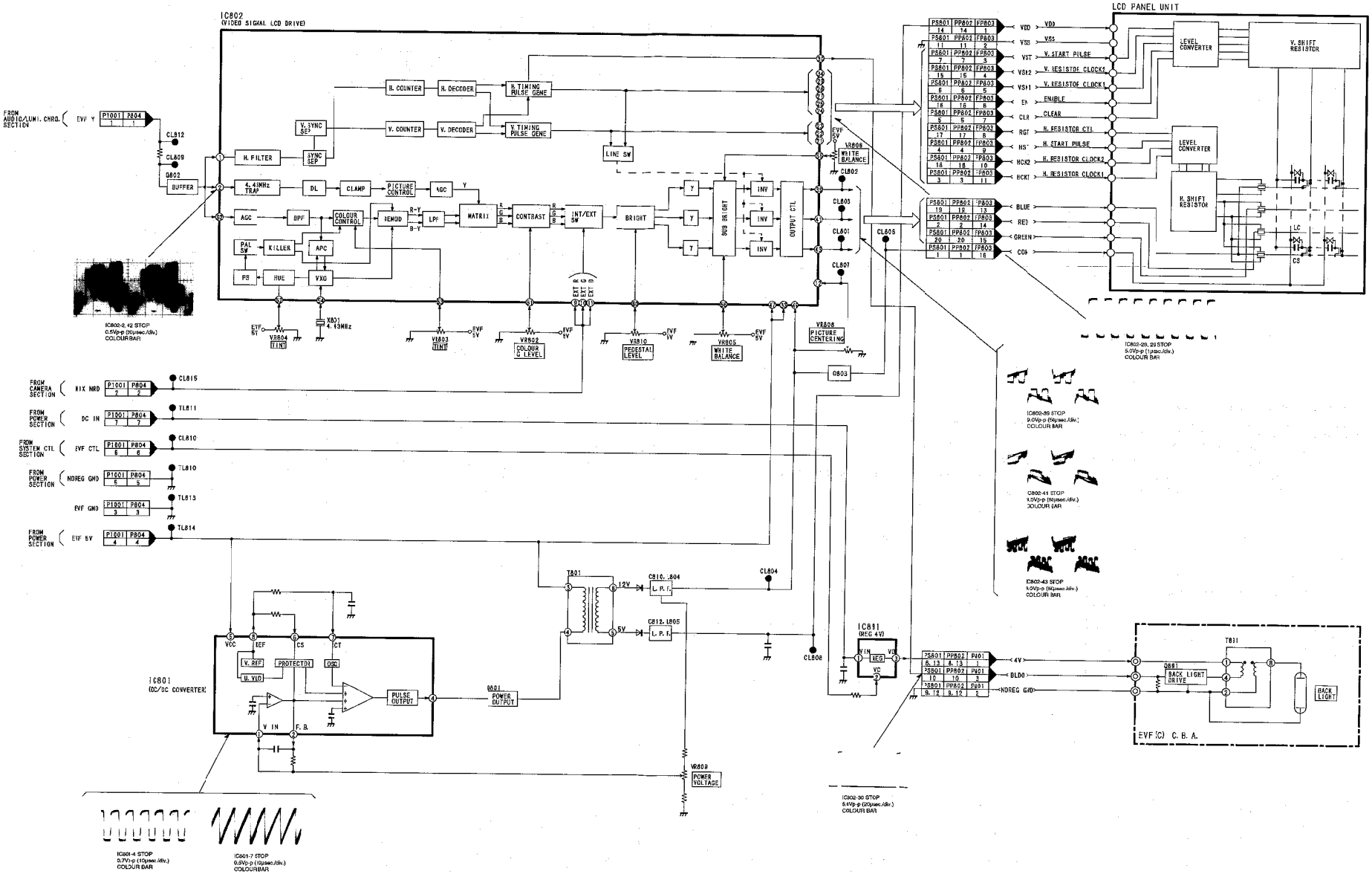


Fig. E5

LOCATION OF TEST POINTS & CTLS
<E.V.F. (A) C.B.A.>

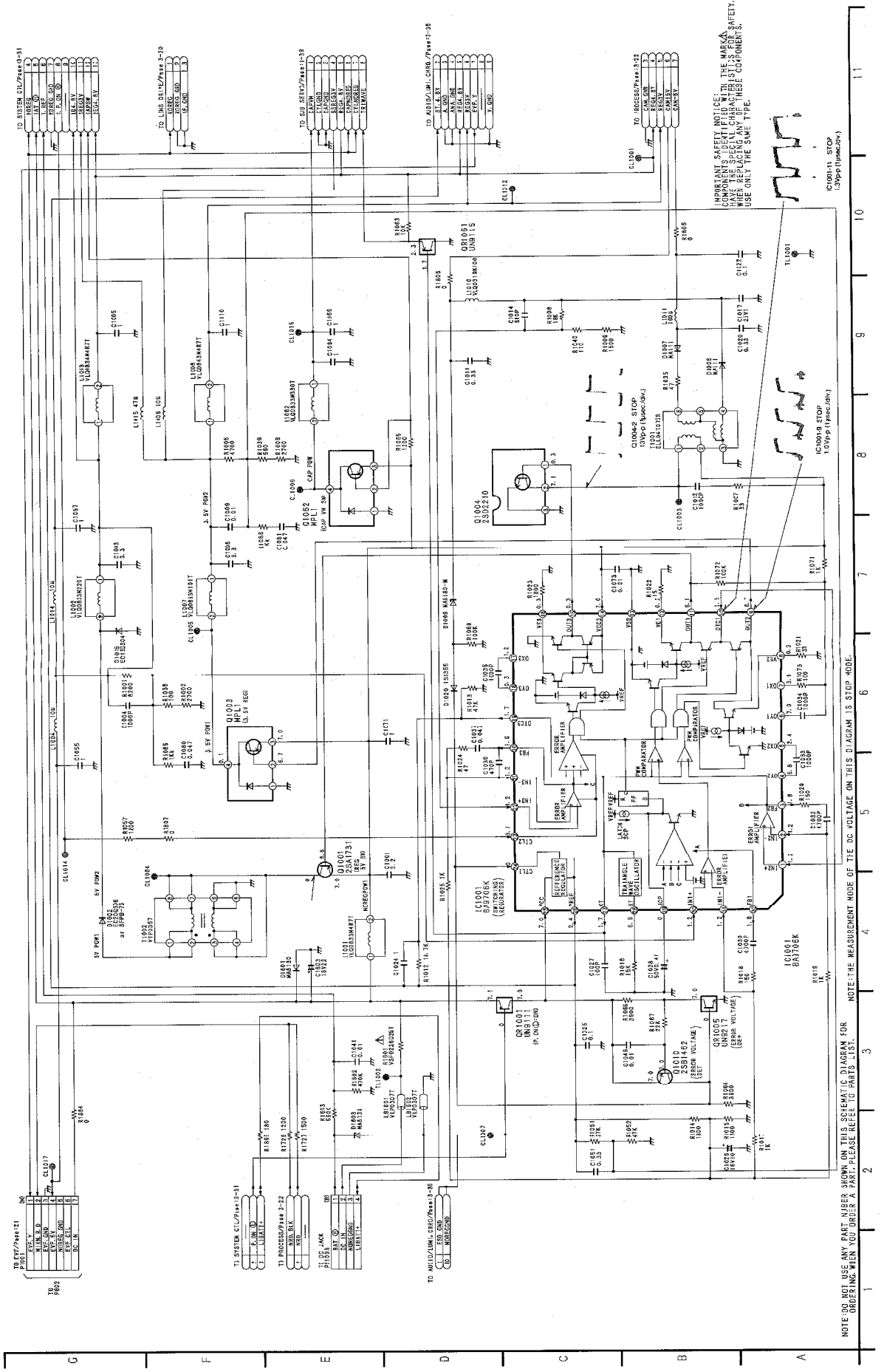


6. COLOUR E.V.F. BLOCK DIAGRAM

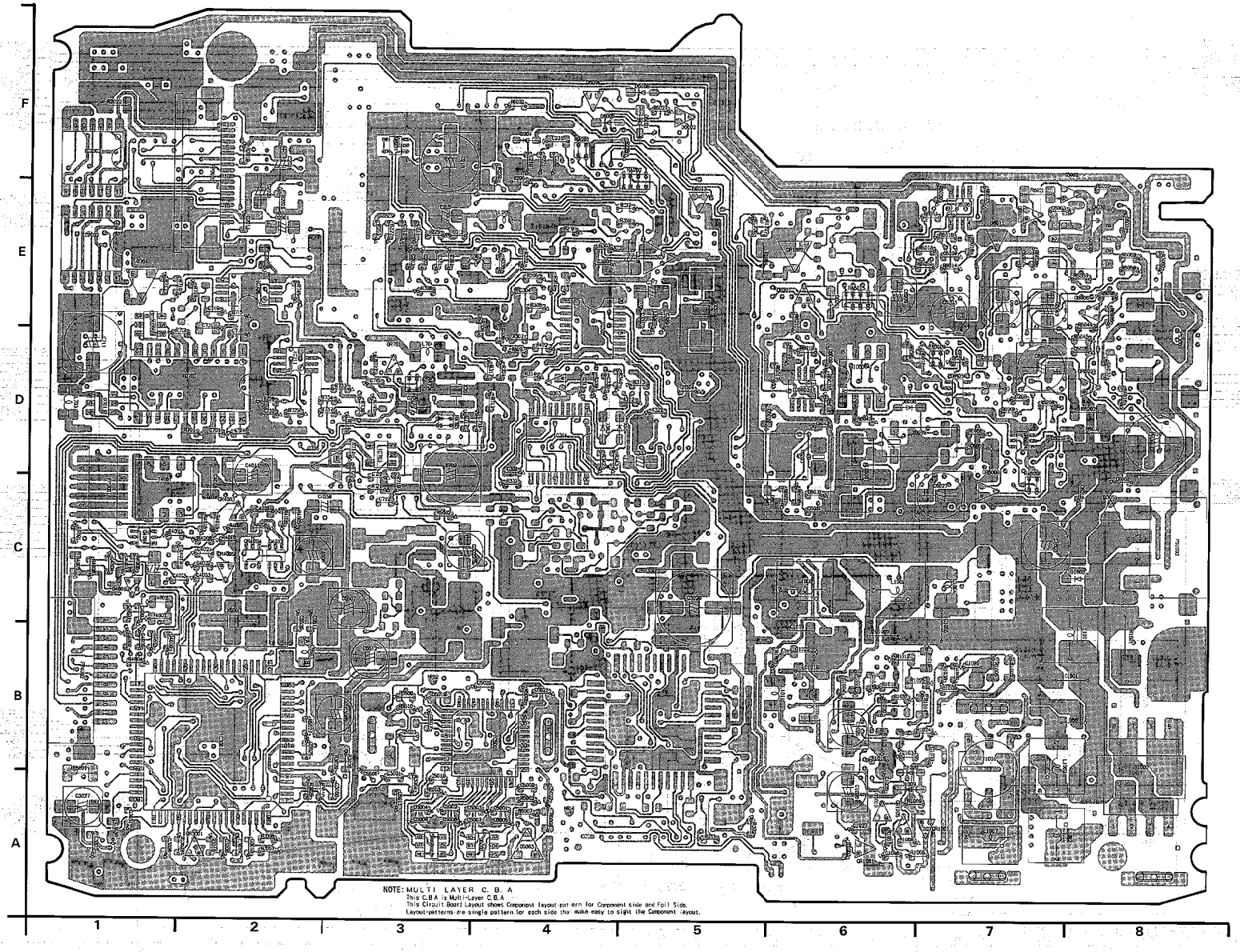


Back Page:
E.V.F. Section

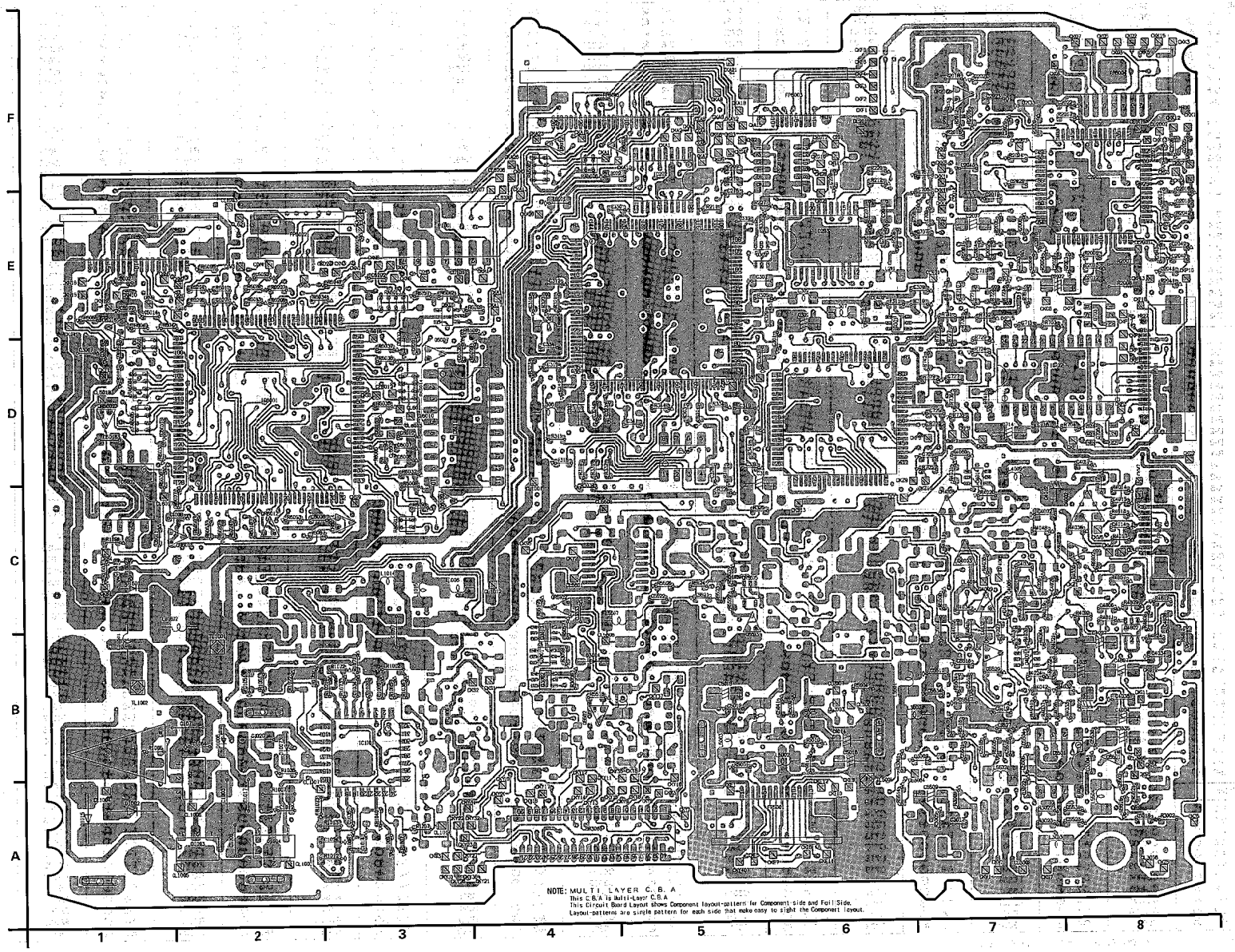
7. POWER SCHEMATIC DIAGRAM



8. CAMERA/MAIN [SENSOR, LENS DRIVE, PROCESS, POWER, SYSTEM CONTROL & SERVO, LUMINANCE/CHROMINANCE /HEAD AMP & AUDIO, SUB SERVO Sections] C.B.A. (VEP23449F)



Back Page:
OWER Section


F
E
D
C
B
A
1
2
3
4
5
6
7
8
NOTE: MULTI LAYER C.B.A
This C.B.A is Multi-Layer C.B.A
This Circuit Board Layout shows Component layout-pattern for Component-side and Foil-Side.
Layout-patterns are single pattern for each side that make easy to sight the Component layout.

MAIN C.B.A. ADDRESS INFORMATIONS

CAM/MAIN C.B.A.

Integrated circuit

IC202	F-5	(F)
IC203	E-6	(F)
IC301	E-5	(F)
IC302	D-4	(C)
IC303	E-5	(C)
IC304	D-4	(C)
IC306	D-5	(F)
IC701	D-2	(C)
IC702	D-7	(C)
IC703	D-3	(C)
IC706	E-2	(C)
IC710	D-6	(F)
IC711	D-2	(C)
IC1001	B-3	(F)
IC2001	F-8	(F)
IC2002	E-1	(C)
IC2003	F-1	(C)
IC3001	B-2	(C)
IC5001	B-4	(C)
IC5501	B-7	(F)
IC6001	D-1	(F)
IC6002	D-1	(F)
IC6003	D-6	(C)
IC6004	D-6	(C)
IC6005	E-8	(C)
IC6006	E-7	(C)
IC6011	D-3	(F)

Transistor

Q301	E-6	(F)
Q302	E-6	(F)
Q303	D-4	(C)
Q701	D-1	(C)
Q702	D-1	(C)
Q703	E-8	(F)
Q704	E-1	(C)
Q705	D-2	(C)
Q706	D-8	(F)
Q1001	B-1	(F)
Q1003	A-2	(F)
Q1004	A-2	(F)
Q1010	A-6	(C)
Q1062	B-2	(F)
Q3001	B-4	(F)
Q3002	B-4	(F)
Q3010	B-4	(F)
Q4001	B-7	(F)
Q4002	C-8	(F)
Q4003	C-7	(F)
Q4004	C-1	(C)
Q4006	C-7	(F)
Q4007	C-2	(C)
Q4009	C-7	(F)
Q4014	D-7	(F)
Q4801	C-1	(C)
Q4802	B-8	(F)
Q5001	A-4	(C)
Q5002	A-3	(C)
Q5003	A-4	(C)
Q5501	B-8	(F)
Q5502	B-4	(F)
Q5503	B-5	(F)
Q6002	F-7	(C)
Q6005	E-3	(F)
Q6006	E-8	(C)
Q6007	D-3	(F)
Q6201	E-6	(C)

Transistor & Resistor

QR201	F-3	(C)
QR701	D-3	(C)
QR1001	A-7	(C)
QR1005	A-6	(C)
QR1061	A-6	(C)
QR1882	E-6	(C)
QR2002	F-7	(F)
QR3001	A-2	(C)
QR4003	C-2	(C)
QR4004	C-2	(C)
QR4005	C-2	(C)
QR4008	C-7	(F)
QR5502	C-4	(F)
QR5504	B-7	(F)
QR5505	C-5	(F)
QR6001	C-8	(F)
QR6002	D-1	(F)
QR6003	E-7	(C)
QR6004	D-7	(C)
QR6007	D-8	(C)
QR6008	C-7	(C)
QR6012	C-2	(F)
QR6014	C-3	(F)
QR6015	C-2	(F)
QR6050	D-7	(C)

Diode

D204	F-4	(C)
D303	D-4	(C)
D304	D-4	(C)
D1002	A-1	(F)
D1006	B-2	(F)
D1007	B-2	(F)
D1009	A-6	(C)
D1015	A-1	(F)
D1020	B-6	(C)
D1601	C-1	(F)
D1603	C-8	(C)
D3001	C-8	(C)
D3004	B-4	(F)
D6001	F-5	(C)
D6002	F-5	(C)
D6003	F-5	(F)
D6004	F-4	(C)
D6005	F-4	(C)
D6006	D-6	(C)
D6008	F-5	(C)
D6009	C-3	(F)
D6010	C-5	(C)
D6011	E-7	(C)
D6012	F-4	(F)
D6013	E-5	(C)
D6016	E-1	(F)
D6201	E-6	(C)

Transformer

T1001	B-7	(C)
T1002	B-8	(C)
T4001	C-1	(C)

Test Point

CL201	F-6	(F)
CL301	D-5	(F)
CL302	D-5	(F)
CL401	E-7	(F)
CL402	E-6	(F)
CL1001	C-4	(F)
CL1003	A-2	(F)
CL1004	A-1	(F)
CL1005	A-2	(F)
CL1006	A-2	(F)
CL1007	A-2	(F)
CL1012	C-4	(F)
CL1014	A-3	(F)
CL1015	F-8	(F)
CL1017	E-3	(F)
CL2001	E-8	(F)
CL2002	F-8	(F)
CL2003	F-7	(F)
CL3001	B-6	(F)
CL3003	B-6	(F)
CL3004	A-6	(F)
CL3005	B-8	(F)
CL3006	A-8	(F)
CL3007	B-6	(F)
CL3008	A-7	(F)
CL4002	C-8	(F)
CL4003	C-8	(F)
CL4004	C-7	(F)
CL4005	C-7	(F)
CL5601	C-4	(F)
CL5606	B-4	(F)
CL5608	C-4	(F)
CL6003	E-2	(F)
CL6009	D-3	(F)
CL6010	D-3	(F)
CL6011	D-3	(F)
CL6012	D-3	(F)
CL6013	D-3	(F)
CL6016	E-3	(F)
CL6017	C-1	(F)
CL6018	D-1	(F)
CL6206	F-4	(F)
CL6207	E-4	(F)
CL6208	E-4	(F)
CL6210	E-2	(F)
CL6211	E-2	(F)
TL1001	B-2	(F)
TL1002	B-1	(F)
TL5005	A-6	(F)

Conector

FP701	D-8	(F)
FP2001	C-1	(C)
FP2002	F-2	(C)
FP4001	C-8	(F)
FP4002	B-1	(C)
FP5001	A-6	(F)
FP6001	E-1	(F)
FP6002	E-3	(F)
FP6003	F-6	(F)
FP6004	F-8	(F)
FP6006	F-5	(F)
P1001	E-3	(F)
PP201	F-6	(F)
PP3001	A-4	(F)
PS1003	C-8	(C)
PS3009	C-8	(C)

Crystal Oscillator

X301	E-5	(C)
X701	D-3	(C)
X5501	C-2	(C)
X6001	D-6	(C)
X6002	D-6	(C)
X6003	D-6	(C)

Coil

L201	E-6	(F)
L205	E-4	(C)
L301	E-4	(F)
L302	E-6	(F)
L303	E-3	(C)
L306	D-4	(F)
L307	E-6	(F)
L703	D-1	(C)
L704	D-3	(C)
L1001	B-8	(C)
L1002	A-7	(C)
L1003	C-6	(C)
L1004	C-7	(C)
L1006	C-3	(F)
L1007	A-7	(C)
L1008	C-6	(C)
L1010	B-6	(C)
L1011	B-6	(C)
L1014	C-3	(F)
L1015	C-3	(F)
L1062	B-7	(C)
L3002	B-6	(F)
L3003	A-7	(F)
L4005	D-7	(F)
L5001	B-6	(F)
L5002	B-6	(F)
L5003	B-5	(F)
L5004	B-5	(F)
L5501	B-6	(F)
L5502	B-7	(F)
L5503	B-2	(C)
L5504	A-8	(F)
L5506	B-4	(F)
L5507	C-4	(F)
LB201	E-4	(F)
LB202	F-5	(F)
LB302	E-5	(C)
LB303	E-4	(C)
LB304	D-5	(C)
LB1601	B-1	(F)
LB1602	C-1	(F)

Capacitor

C201	E-3	(C)
C202	E-3	(C)
C203	E-3	(C)
C205	E-6	(F)
C206	F-4	(C)
C207	E-6	(F)
C208	E-6	(F)
C211	E-3	(C)
C212	E-3	(C)
C213	E-3	(C)
C215	E-3	(C)
C216	E-5	(F)
C218	F-3	(C)
C219	F-4	(C)
C228	F-6	(F)
C231	F-4	(C)
C232	F-4	(C)
C301	D-6	(F)
C302	E-6	(F)
C304	E-4	(C)
C305	D-5	(F)
C307	E-6	(F)
C308	D-4	(C)
C309	E-7	(F)
C310	E-4	(F)
C311	E-3	(C)
C312	E-4	(F)
C313	D-4	(C)
C315	D-4	(F)
C316	E-5	(C)
C317	E-5	(C)
C318	D-6	(F)
C319	D-5	(F)
C321	D-4	(F)
C322	D-5	(C)
C323	D-4	(F)
C324	D-4	(F)
C325	E-6	(F)
C326	E-4	(C)
C327	D-4	(C)
C328	D-5	(F)
C329	E-5	(C)
C330	E-5	(F)
C331	E-5	(C)
C332	E-5	(F)
C333	D-5	(C)
C334	D-4	(F)
C335	D-4	(C)
C337	D-5	(F)
C338	D-5	(F)
C340	D-4	(F)
C341	D-5	(F)
C701	D-2	(C)
C702	D-3	(C)
C703	D-4	(C)
C704	D-3	(C)
C705	D-3	(C)
C706	E-7	(F)
C707	E-7	(F)
C708	E-7	(F)
C709	E-3	(C)
C710	D-7	(F)
C711	D-1	(C)
C712	C-3	(C)
C713	E-7	(F)
C714	D-7	(F)
C715	E-2	(C)
C716	D-7	(F)
C717	D-3	(C)
C718	D-2	(C)
C719	E-2	(C)
C720	E-2	(C)
C721	E-7	(F)
C724	D-2	(C)
C725	D-7	(F)
C726	D-7	(F)
C727	D-7	(F)
C731	D-2	(C)
C732	D-2	(C)
C1001	B-8	(C)
C1003	A-2	(F)
C1004	B-6	(C)
C1005	B-6	(C)
C1008	A-2	(F)
C1009	B-7	(C)
C1010	B-6	(C)
C1012	A-2	(F)
C1014	A-3	(F)
C1017	A-2	(F)
C1019	B-6	(C)
C1020	B-2	(F)
C1022	B-6	(C)
C1024	A-3	(F)
C1025	A-6	(C)
C1026	B-6	(C)
C1027	A-6	(C)
C1028	A-6	(C)
C1030	B-6	(C)
C1032	B-6	(C)
C1033	B-3	(F)
C1034	B-3	(F)
C1035	A-3	(F)
C1036	B-6	(C)
C1037	B-6	(C)
C1041	C-1	(F)
C1046	A-6	(C)
C1051	B-2	(F)
C1055	B-7	(C)
C1057	B-3	(F)
C1064	B-2	(F)
C1066	B-8	(C)
C1071	B-2	(F)
C1073	B-7	(C)
C1080	B-3	(F)
C1081	B-7	(C)
C1603	C-7	(C)
C2001	E-2	(C)
C2002	E-7	(F)
C2003	E-7	(F)
C2004	E-7	(F)
C2005	E-7	(F)
C2007	E-7	(F)
C2009	E-7	(F)
C2010	E-7	(F)
C2011	E-2	(C)
C2012	E-8	(F)
C2013	E-8	(F)
C2014	E-7	(F)
C2015	E-8	(F)
C2016	E-8	(F)
C2017	E-8	(F)
C2018	F-2	(C)
C2020	F-7	(F)
C2021	F-7	(F)
C2022	F-8	(F)
C2023	F-7	(F)
C2025	F-8	(F)
C2026	F-8	(F)
C2027	F-8	(F)
C2028	E-2	(C)
C2029	E-7	(F)
C2033	F-7	(F)
C2040	E-8	(F)
C2041	E-8	(F)
C2042	E-8	(F)
C2043	F-7	(F)
C2370	E-7	(F)
C3001	A-3	(C)
C3004	B-8	(F)
C3005	B-3	(C)
C3006	D-1	(F)
C3007	D-1	(F)
C3008	A-3	(C)
C3009	B-7	(F)
C3016	A-2	(C)
C3017	A-7	(F)
C3018	A-8	(F)
C3019	A-2	(C)
C3020	A-2	(C)
C3022	A-7	(F)
C3023	A-1	(C)
C3024	A-2	(C)
C3026	A-1	(C)
C3027	A-1	(C)
C3028	C-5	(C)
C3029	C-3	(C)
C3030	A-1	(C)
C3031	A-1	(C)
C3033	C-4	(F)
C3035	B-8	(F)
C4001	C-1	(C)
C4002	C-7	(F)
C4003	C-2	(C)
C4004	B-8	(F)
C4008	C-2	(C)
C4009	B-1	(C)
C4011	D-2	(C)
C4012	C-7	(F)
C4014	C-8	(F)
C4015	C-8	(F)
C4016	C-2	(C)
C4017	D-8	(F)
C4019	C-2	(C)
C4020	C-2	(C)
C4021	C-2	(C)
C4022	C-2	(C)
C4023	C-1	(C)
C4024	C-1	(C)
C4025	B-8	(F)
C4026	B-7	(F)
C4027	B-8	(F)
C4028	C-7	(F)
C4029	C-7	(F)
C4030	C-7	(F)
C4031	B-7	(F)
C4032	B-7	(F)
C4034	B-8	(F)
C4035	B-8	(F)
C4036	B-8	(F)
C4037	D-8	(C)
C4038	C-2	(C)
C4301	C-1	(C)
C4302	B-1	(C)
C4303	C-1	(C)
C4304	C-1	(C)
C4805	B-1	(C)
C4806	C-8	(F)
C4807	B-8	(F)
C4808	B-8	(F)
C5001	A-4	(C)
C5002	A-3	(C)
C5003	A-3	(C)
C5004	A-3	(C)
C5005	A-4	(C)
C5006	A-3	(C)
C5007	A-3	(C)
C5008	A-3	(C)
C5009	A-4	(C)
C5010	A-3	(C)
C5011	A-3	(C)
C5012	3-5	(F)
C5013	3-6	(F)
C5014	B-6	(F)
C5016	B-6	(F)
C5017	B-3	(C)
C5018	B-5	(F)
C5019	B-3	(C)
C5020	B-4	(C)
C5021	B-4	(C)
C5022	A-4	(C)
C5023	B-3	(C)
C5041	B-6	(F)
C5501	B-7	(F)
C5502	A-8	(F)
C5504	B-7	(F)
C5505	B-7	(F)
C5506	B-7	(F)
C5507	C-3	(C)
C5538	A-3	(C)
C5539	A-7	(F)
C5510	B-7	(F)
C5511	B-2	(C)
C5512	B-3	(C)
C5513	B-7	(F)
C5514	B-7	(F)
C5515	B-7	(F)
C5516	B-7	(F)
C5517	B-7	(F)
C5518	B-7	(F)
C5519	B-7	(F)
C5520	B-7	(F)
C5521	C-5	(F)
C5522	C-5	(F)
C5523	A-8	(F)
C5525	B-2	(C)
C5526	B-2	(C)
C5527	B-7	(F)
C5530	B-8	(F)
C5531	A-8	(F)
C5534	B-7	(F)
C6001	E-8	(C)
C6002	E-1	(F)
C6003	E-6	(C)
C6004	E-7	(C)
C6005	E-2	(F)
C6006	D-3	(F)
C6007	D-3	(F)
C6008	C-2	(F)
C6009	D-6	(C)
C6010	C-8	(C)
C6011	C-1	(F)
C6012	D-3	(F)
C6013	D-3	(F)
C6014	E-1	(F)
C6016	D-1	(F)
C6018	D-8	(C)
C6025	D-8	(C)
C6027	C-7	(C)
C6029	D-5	(C)
C6030	E-8	(C)
C6031	D-1	(F)
C6032	D-3	(F)
C6033	C-6	(C)
C6034	C-6	(C)
C6035	D-3	(F)
C6039	D-7	(C)
C6042	D-6	(C)
C6049	E-7	(C)
C6050	E-7	(C)
C6051	E-7	(C)
C6052	E-2	(F)
C6060	D-7	(C)
C6061	C-6	(C)
C6201	D-3	(F)
C6202	E-3	(F)
C6203	E-7	(C)
C6204	D-7	(C)
C6205	E-2	(F)
C6206	D-7	(C)
C6207	E-1	(F)
C6208	D-7	(C)
C6209	E-6	(C)
C6210	D-7	(C)

Resistor

R201	E-6	(F)
R203	E-3	(C)
R204	E-4	(C)
R205	E-4	(C)
R208	E-6	(F)
R209	F-5	(F)
R210	F-5	(F)
R211	E-5	(F)
R212	F-6	(F)
R214	E-4	(C)
R219	E-4	(C)
R220	F-6	(F)
R221	F-4	(C)
R225	E-3	(C)
R226	F-4	(C)
R227	E-6	(F)
R228	F-4	(C)
R302	A-5	(C)
R303	D-5	(F)
R304	D-5	(F)
R305	E-6	(F)
R306	E-4	(C)
R307	D-4	(C)
R308	E-3	(C)
R309	D-4	(C)
R310	E-7	(F)
R311	E-6	(F)
R312	D-5	(C)
R313	D-5	(C)
R314	D-4	(C)
R315	D-4	(F)
R316	D-4	(F)
R317	D-4	(C)
R318	D-5	(F)
R319	D-4	(F)
R320	E-4	(F)
R321	E-4	(F)
R322	E-4	(C)
R323	D-4	(F)
R324	D-4	(C)
R325	C-5	(F)
R326	C-5	(F)
R327	E-3	(C)
R328	E-3	(C)
R329	E-6	(F)
R330	C-4	(C)
R331	D-4	(F)
R332	D-4	(F)
R333	A-5	(C)
R334	D-5	(F)
R335	E-4	(C)
R336	E-6	(C)
R337	E-4	(C)
R338	E-4	(C)
R339	D-4	(C)
R340	D-4	(C)
R341	D-5	(C)
R342	D-4	(C)
R343	D-4	(C)
R344	D-5	(F)
R402	D-4	(C)
R701	D-2	(C)
R702	D-1	(C)
R703	E-7	(F)
R704	D-8	(F)
R705	D-7	(F)
R706	D-7	(F)
R707	D-3	(C)
R709	D-7	(F)
R710	E-7	(F)
R711	D-3	(C)
R713	D-4	(C)
R714	D-3	(C)
R716	E-1	(C)
R717	E-1	(C)
R718	E-2	(C)
R719	C-3	(C)
R720	D-3	(C)
R721	C-3	(C)
R722	E-7	(F)
R723	E-7	(F)
R724	D-7	(F)
R725	D-2	(C)
R726	D-2	(C)
R727	D-7	(F)
R728	D-7	(F)
R729	D-7	(F)
R730	E-7	(F)
R731	E-7	(F)
R732	E-7	(F)
R733	D-3	(C)
R734	D-3	(C)
R735	D-7	(F)
R736	D-7	(F)
R737	D-3	(C)
R738	D-3	(C)
R740	D-3	(C)
R741	D-7	(F)
R742	D-7	(F)
R743	E-7	(F)
R745	E-2	(F)
R757	F-7	(F)
R758	E-7	(F)
R761	E-7	(F)
R1001	B-6	(C)
R1002	B-3	(F)
R1005	B-7	(C)
R1006	B-7	(C)
R1007	A-2	(F)
R1008	A-3	(F)
R1009	A-3	(F)
R1012	A-3	(F)
R1013	A-3	(F)
R1014	B-7	(C)
R1015	B-6	(C)
R1016	B-6	(C)
R1017	B-6	(C)
R1018	B-6	(C)
R1019	B-7	(C)
R1020	B-6	(C)
R1021	B-3	(F)
R1022	B-2	(C)
R1023	A-2	(F)
R1024	B-7	(C)
R1025	B-6	(C)
R1035	B-2	(F)
R1038	B-3	(F)
R1039	B-7	(C)
R1040	A-3	(F)
R1051	B-2	(F)
R1052	B-2	(F)
R1057	A-3	(F)
R1063	A-6	(C)
R1055	B-1	(F)
R1056	A-7	(C)
R1057	A-6	(C)
R1058	A-6	(C)
R1039	A-6	(C)
R1071	B-3	(F)
R1072	B-3	(F)
R1073	B-3	(F)
R1035	B-3	(F)
R1036	B-7	(C)
R1601	B-8	(C)
R1602	C-1	(F)
R1603	C-1	(F)
R1699	C-1	(F)
R1726	E-5	(C)
R1727	E-5	(C)
R1865	B-6	(F)
R1866	B-3	(C)
R1867	A-3	(F)
R1884	E-5	(C)
R2001	E-7	(F)
R2002	E-7	(F)
R2003	E-8	(F)
R2004	E-7	(F)
R2005	E-7	(F)
R2006	E-7	(F)
R2007	E-8	(F)
R2008	E-8	(F)
R2009	E-8	(F)
R2010	E-7	(F)
R2012	F-7	(F)
R2015	F-7	(F)
R2016	F-7	(F)
R2017	F-8	(F)
R2018	F-7	(F)
R2019	F-2	(F)
R2020	F-7	(F)
R2021	E-2	(C)
R2022	F-1	(C)
R2024	F-7	(F)
R2040	F-8	(F)
R2041	E-8	(F)
R2042	E-8	(F)
R3001	B-6	(F)
R3002	A-8	(F)
R3004	A-3	(F)
R3005	A-7	(F)
R3006	A-2	(C)
R3007	A-2	(C)
R3009	A-7	(F)
R3010	A-2	(C)
R3018	A-2	(C)
R3020	B-3	(C)
R3022	A-7	(F)
R3023	A-7	(F)
R3025	A-2	(C)
R3026	B-3	(C)
R3034	D-4	(F)
R3057	B-4	(F)
R3058	B-4	(F)
R3059	B-4	(F)
R3060	E-8	(C)
R4001	C-1	(C)
R4002	B-7	(F)
R4004	B-7	(F)
R4005	C-2	(C)
R4006	C-1	(C)
R4007	C-7	(F)
R4008	C-2	(C)
R4009	C-8	(F)
R4010	C-2	(C)
R4011	C-7	(F)
R4012	C-8	(F)
R4013	C-8	(F)
R4014	C-8	(F)
R4015	C-2	(C)
R4016	C-2	(C)
R4017	C-8	(F)
R4018	D-8	(C)
R4019	C-7	(F)
R4020	C-7	(F)
R4021	E-7	(F)
R4022	E-7	(F)
R4023	C-1	(C)
R4024	E-7	(F)
R4025	C-2	(C)
R4026	C-2	(C)
R4027	B-7	(F)
R4028	C-7	(F)
R4029	B-7	(F)
R4030	C-8	(F)
R4031	D-7	(F)
R4032	B-8	(F)
R4033	B-8	(F)
R4034	C-7	(F)
R4035	C-2	(C)
R4036	C-7	(F)
R4037	B-7	(F)
R4038	C-8	(F)
R4040	B-7	(F)
R4041	B-7	(F)
R4042	B-7	(F)
R4048	C-7	(F)
R4060	D-7	(F)
R48C1	C-1	(C)
R48C2	C-1	(C)
R48C3	B-1	(C)
R4804	B-1	(C)
R4805	C-1	(C)
R4806	C-1	(C)
R4807	C-8	(F)
R4808	C-8	(F)
R4809	C-8	(F)
R4810	B-8	(F)
R4811	C-8	(F)
R4812	C-8	(F)
R4824	B-8	(F)
R5001	B-5	(F)
R5002	A-4	(C)
R5003	A-3	(C)
R5004	B-6	(F)
R5005	B-4	(C)
R5007	A-4	(C)
R5008	A-4	(C)
R5009	B-6	(F)
R5010	B-6	(F)
R5500	C-7	(F)
R5502	C-3	(C)
R5503	C-5	(F)
R5504	B-7	(F)

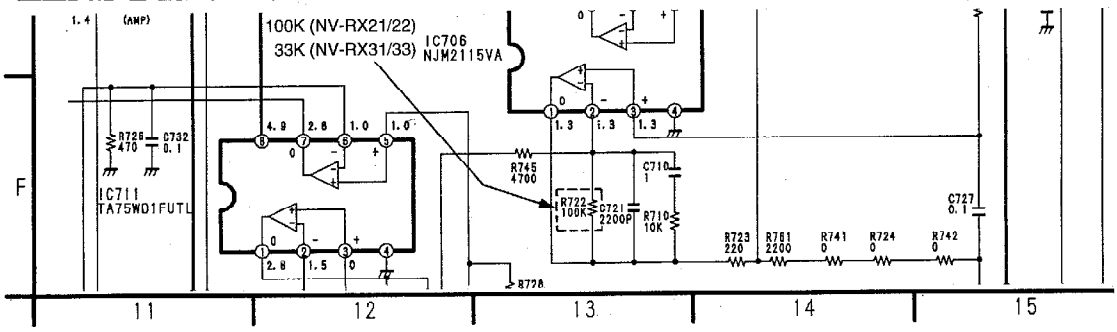
ADDRESS INFORMATION (C)...COMPONENT SIDE (F)...FOIL SIDE

CAM/MAIN C.B.A.

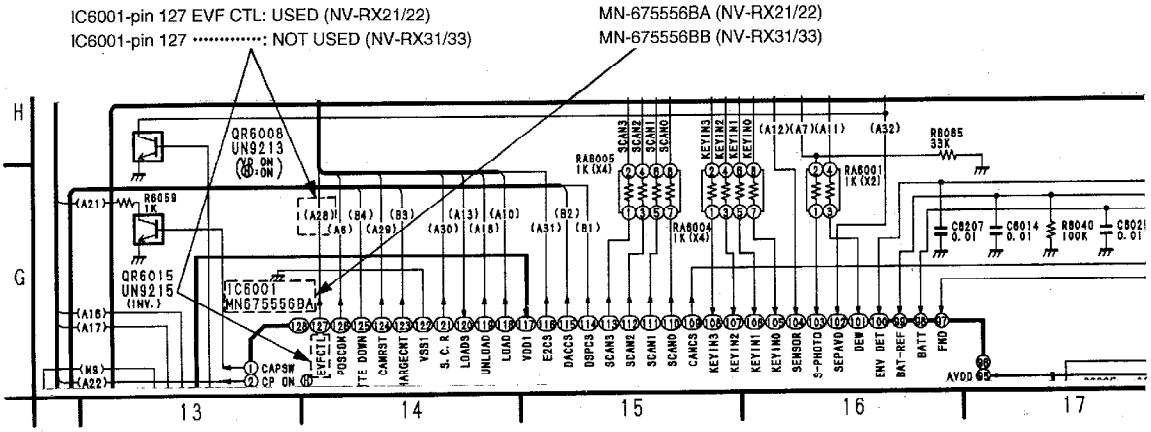
R5505	B-7 Ⓕ	R6205	E-2 Ⓕ						
R5508	B-3 Ⓒ	R6206	E-2 Ⓕ						
R5510	B-3 Ⓒ	R6207	E-2 Ⓕ						
R5513	B-7 Ⓕ	R6208	D-7 Ⓒ						
R5514	A-6 Ⓕ	R6209	D-7 Ⓒ						
R5515	A-8 Ⓕ	R6210	E-6 Ⓒ						
R5516	B-4 Ⓕ	R6211	D-7 Ⓒ						
R5517	C-4 Ⓕ	R6801	A-1 Ⓒ						
R5521	A-8 Ⓕ	R6802	C-8 Ⓕ						
R5522	C-5 Ⓕ	**Resistor Array**							
R5523	C-5 Ⓕ								
R5524	C-5 Ⓕ	RA201	F-4 Ⓒ						
R5526	C-5 Ⓕ	RA202	F-4 Ⓒ						
R5527	B-2 Ⓒ	RA703	D-3 Ⓒ						
R6001	E-3 Ⓕ	RA704	D-3 Ⓒ						
R6002	F-4 Ⓒ	RA6001	D-1 Ⓕ						
R6003	D-1 Ⓕ	RA6002	F-4 Ⓕ						
R6004	D-1 Ⓕ	RA6004	D-1 Ⓕ						
R6006	D-3 Ⓕ	RA6005	D-1 Ⓕ						
R6007	C-2 Ⓕ	RA6006	F-4 Ⓕ						
R6008	C-3 Ⓕ	RA6008	C-7 Ⓒ						
R6009	E-4 Ⓕ	RA6009	D-7 Ⓒ						
R6010	C-2 Ⓕ	RA6011	C-3 Ⓕ						
R6011	D-6 Ⓒ	RA6013	E-3 Ⓕ						
R6012	E-2 Ⓕ	RA6014	D-3 Ⓕ						
R6013	E-6 Ⓒ	RA6015	E-6 Ⓒ						
R6014	E-7 Ⓒ								
R6015	E-7 Ⓒ								
R6016	E-7 Ⓒ								
R6017	D-5 Ⓒ								
R6018	D-6 Ⓒ								
R6019	D-6 Ⓒ								
R6020	E-7 Ⓒ								
R6021	E-7 Ⓒ								
R6022	F-8 Ⓒ								
R6023	E-7 Ⓒ								
R6024	C-2 Ⓕ								
R6025	D-6 Ⓒ								
R6026	E-7 Ⓒ								
R6027	F-5 Ⓒ								
R6028	E-2 Ⓕ								
R6030	D-1 Ⓕ								
R6031	D-6 Ⓒ								
R6032	D-3 Ⓕ								
R6033	E-2 Ⓕ								
R6034	E-2 Ⓕ								
R6035	D-3 Ⓕ								
R6036	D-3 Ⓕ								
R6037	D-3 Ⓕ								
R6038	D-1 Ⓕ								
R6039	D-8 Ⓒ								
R6040	E-1 Ⓕ								
R6042	E-1 Ⓕ								
R6044	E-8 Ⓒ								
R6045	D-8 Ⓒ								
R6046	D-6 Ⓒ								
R6047	E-3 Ⓕ								
R6050	E-6 Ⓒ								
R6051	E-7 Ⓒ								
R6053	C-2 Ⓕ								
R6056	C-3 Ⓕ								
R6057	E-3 Ⓕ								
R6058	D-7 Ⓒ								
R6059	C-2 Ⓕ								
R6062	E-3 Ⓕ								
R6063	C-2 Ⓕ								
R6065	E-1 Ⓕ								
R6067	E-8 Ⓒ								
R6068	E-8 Ⓒ								
R6069	E-8 Ⓒ								
R6082	C-2 Ⓕ								
R6085	E-8 Ⓒ								
R6086	E-8 Ⓒ								
R6087	C-2 Ⓕ								
R6089	D-6 Ⓒ								
R6095	E-2 Ⓕ								
R6097	C-6 Ⓒ								
R6098	C-6 Ⓒ								
R6099	D-4 Ⓕ								
R6100	E-4 Ⓕ								
R6202	D-8 Ⓒ								
R6204	E-2 Ⓕ								

ADDRESS INFORMATION Ⓒ...COMPONENT SIDE Ⓕ...FOIL SIDE

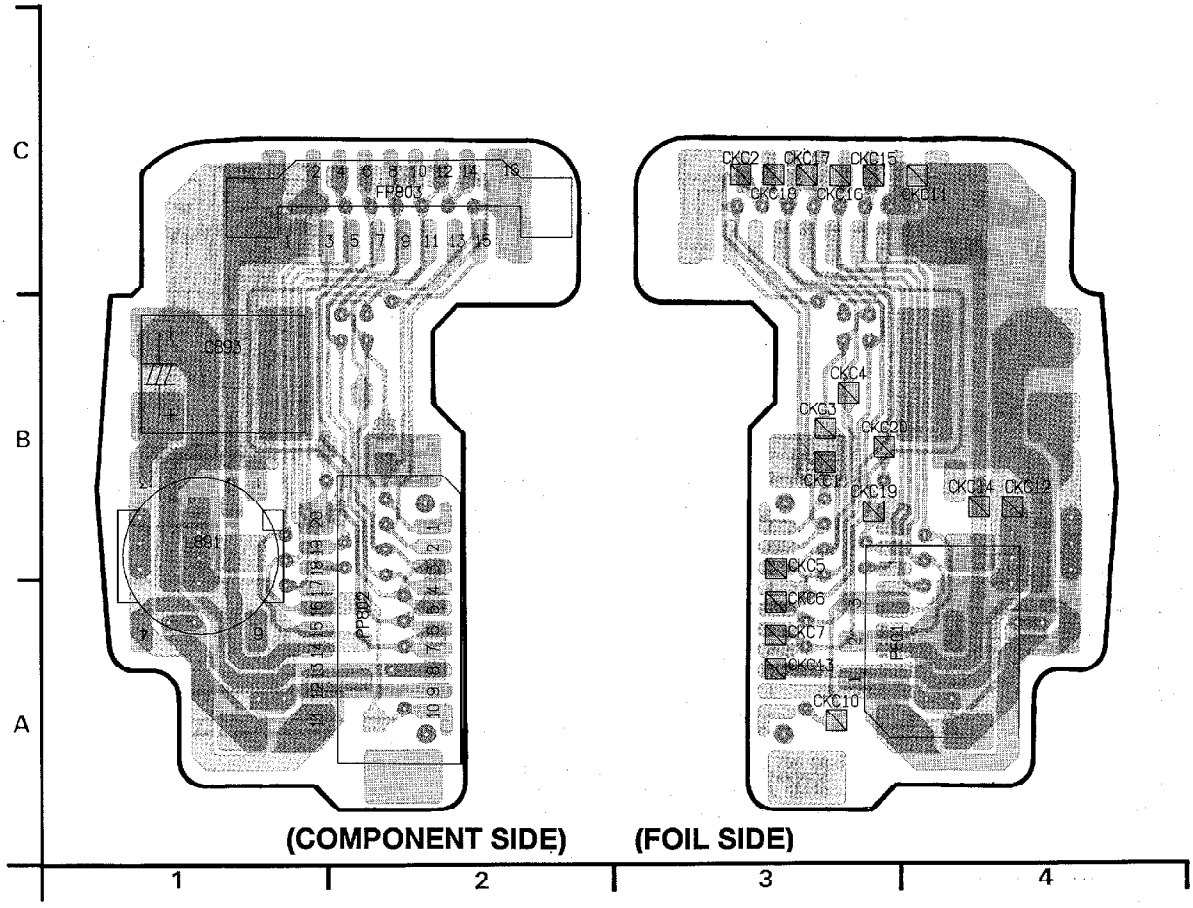
9. LENS DRIVE SCHEMATIC DIAGRAM



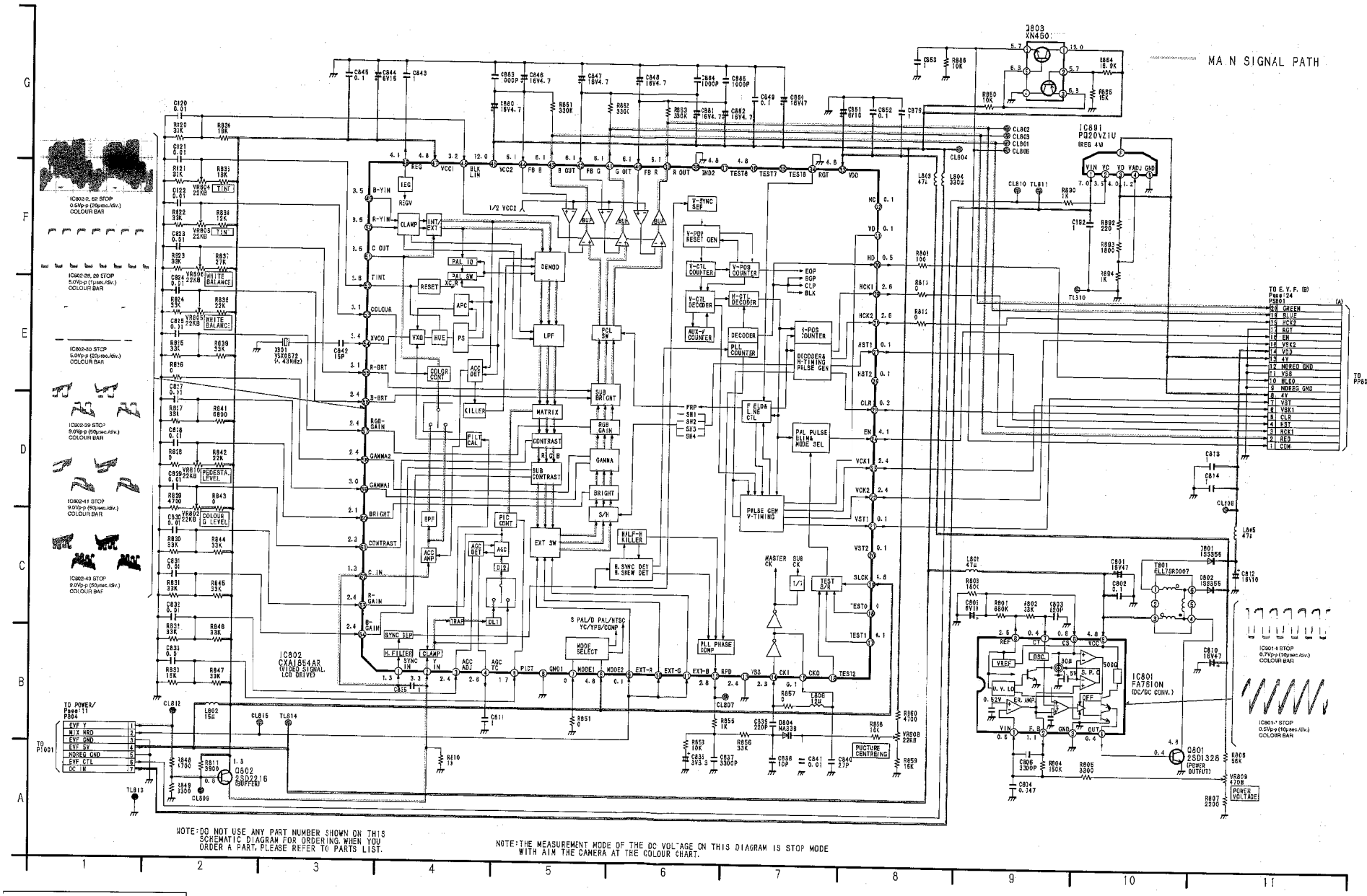
10. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM



11. E.V.F. (B) C.B.A. (VEP28250A)



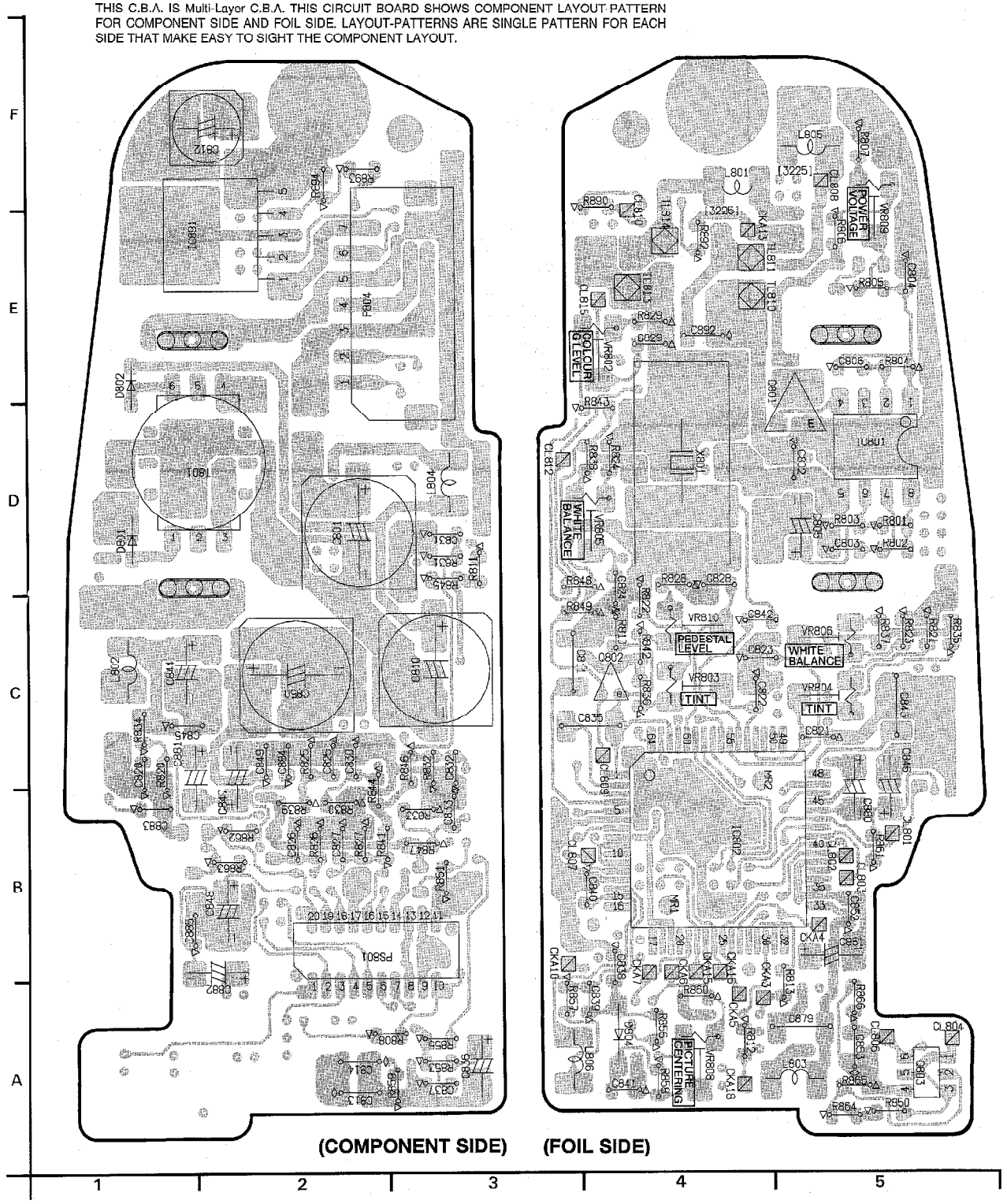
12. E.V.F. (A) SCHEMATIC DIAGRAM


MAIN SIGNAL PATH
IC802 CXA1854AR (VIDEO SIGNAL LCD DRIVE)
IC801 FA7810N (DC/DC CONV.)
IC881 PQ20VZ1U (REG 4V)
Q802 2SD2216 (BUFFER)
Q801 2SD1328 (POWER OUTPUT)
TO E.V.F. (B) PS801
TO PP802
TO POWER/ PS804
TO PT001
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE COLOUR CHART.

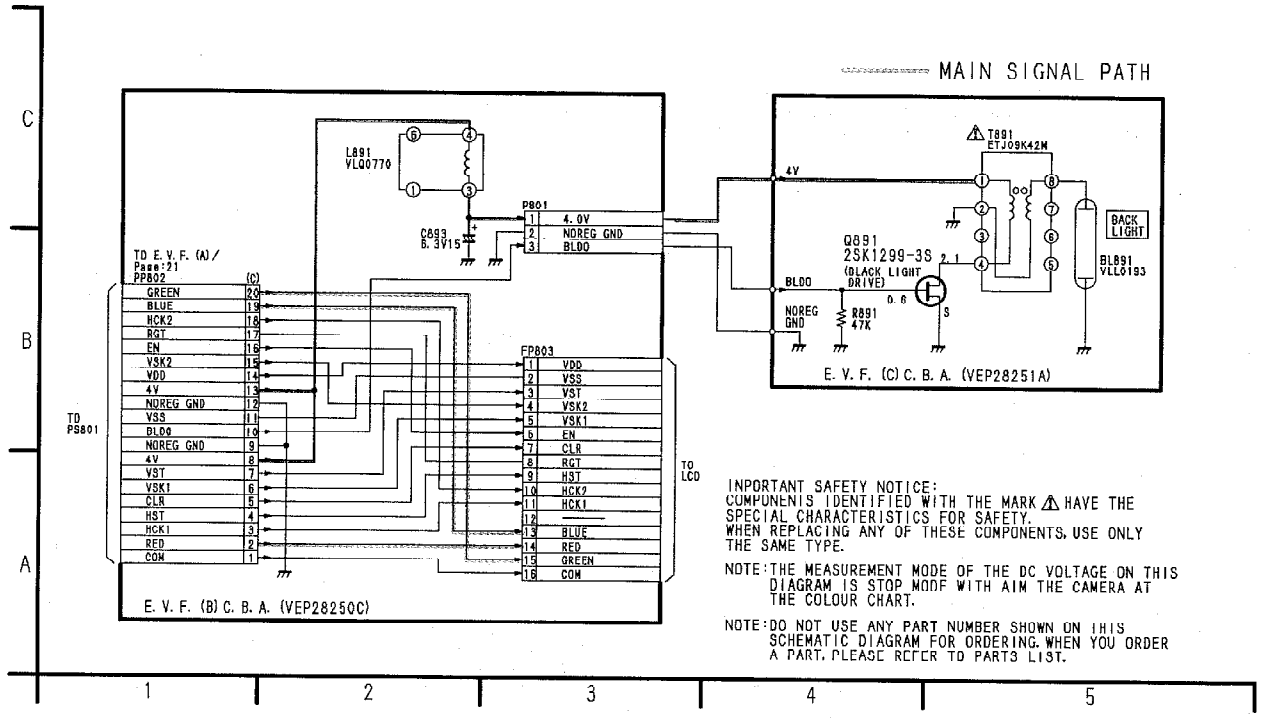
13. E.V.F. (A) C.B.A. (VEP28249A)

NOTE: MULTILAYER C.B.A.

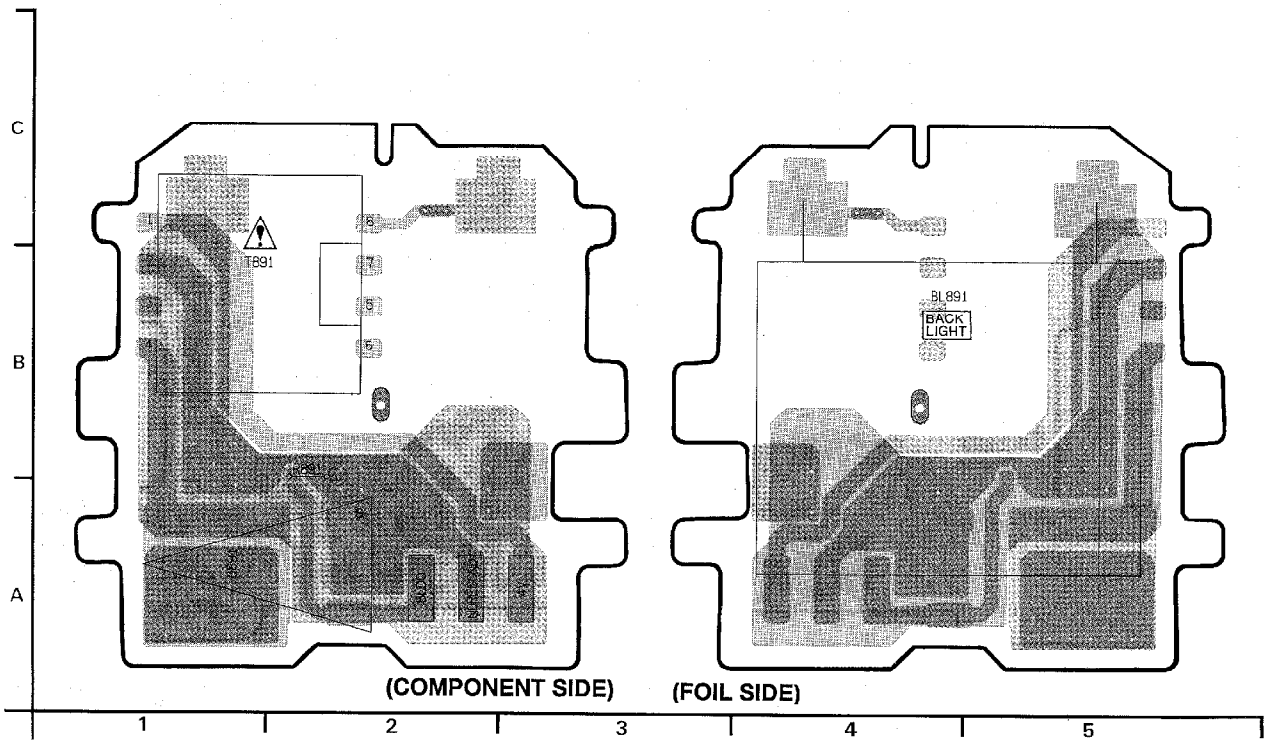
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



14. E.V.F. (B)/(C) SCHEMATIC DIAGRAM

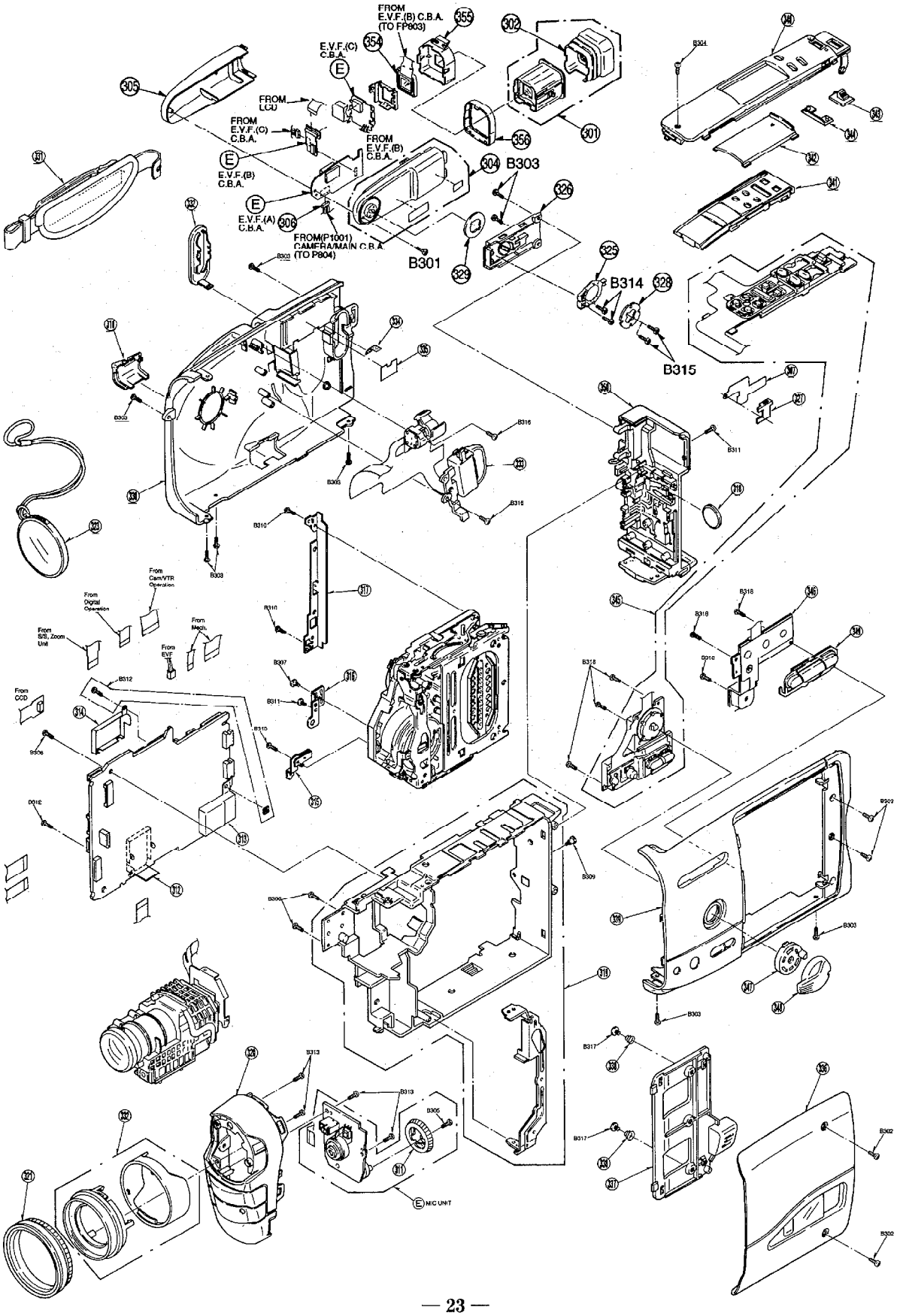


15. E.V.F. (C) C.B.A. (VEP28251A)

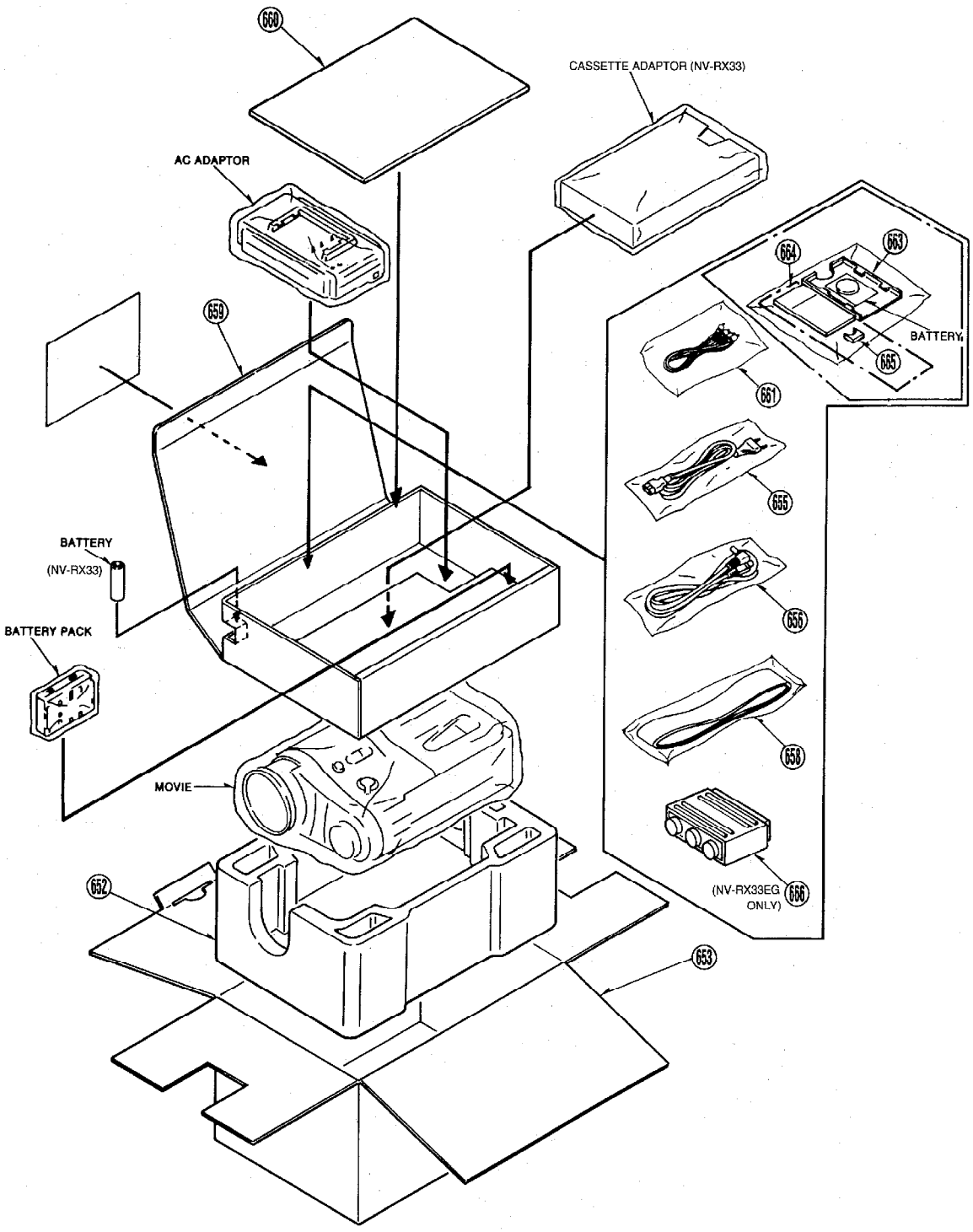


16. EXPLODED VIEWS

❺ FRAME & CASING PARTS SECTION



❻ PACKING PARTS & ACCESSORIES SECTION



17. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf). P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP23449F	CAMERA/MAIN C.B.A.	1	(RTL)
■	VEP28249A	E.V.F. (A) C.B.A.	1	(RTL)
■	VEP28250A	E.V.F. (B) C.B.A.	1	(RTL)
■	VEP28251A	E.V.F. (C) C.B.A.	1	(RTL)
■	VEP23449F	CAMERA/MAIN C.B.A.		(RTL)
C201, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C203	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C205	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C207, 08	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	2	
C211	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C212, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C215	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C216	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C218	ECEV1AA101U	E. CAPACITOR CH 10V 100U	1	
C219	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C228	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C231	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C232	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C301	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C302	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C304, 05	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C307	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C308	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C309	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C310	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C311	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C312	ECUX1H080CCV	C. CAPACITOR CH 50V 8P	1	
C313	ECUM1C683KBV	C. CAPACITOR CH 16V 0.068U	1	
C315	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C316, 17	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	2	
C318	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U	1	
C319	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C321	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C322, 23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C324	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C325	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C326	ECUX1A105ZFV	C. CAPACITOR CH 10V 1U	1	
C327-31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C332	ECUM1C683KBV	C. CAPACITOR CH 16V 0.068U	1	
C333	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C334	ECUX1H080CCV	C. CAPACITOR CH 50V 8P	1	
C335	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C337, 38	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C340, 41	ECUM1C683KBV	C. CAPACITOR CH 16V 0.068U	2	
C701	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C702	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C703	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C704	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C705	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C706, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C708	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C709	ECEV1AA101U	E. CAPACITOR CH 10V 100U	1	
C710	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C711	ECEV1CA470P	E. CAPACITOR CH 16V 47U	1	
C712	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C713	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C714	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C715	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C716	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C717	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C718	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C719	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C720	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C721	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C724	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C725, 26	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C727	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C731	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C732	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C1001	ECUM1A225KBM	C. CAPACITOR CH 10V 2.2U	1	
C1003	ECUM1A335KBM	C. CAPACITOR CH 10V 3.3U	1	
C1004	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C1005	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1008	ECUM1A335KBM	C. CAPACITOR CH 10V 3.3U	1	
C1009	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1010	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1012	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C1014	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C1017	ECUM1E105KBM	C. CAPACITOR CH 25V 1U	1	
C1019, 20	ECUM1E334KBM	C. CAPACITOR CH 25V 0.33U	2	
C1022	ECUM1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C1026	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C1027	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C1029	ECEV1HAR47	E. CAPACITOR CH 50V 0.47U	1	
C1030	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C1032	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C1033-35	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3	
C1036	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1037	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C1041	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1046	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1051	ECUM1C334KBN	C. CAPACITOR CH 16V 0.33U	1	
C1055	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1057	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1064	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1066	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C1071	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1073	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1080, 81	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	2	
C1603	ECEV1CA220P	E. CAPACITOR CH 16V 22U	1	
C2001, 02	ECST1CY105Z	T. CAPACITOR CH 16V 1U	2	
C2003	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C2004	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2005	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C2007	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1	
C2009	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C2010	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C2011	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2012, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C2014	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C2015-17	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C2018	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C2020-22	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C2023	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C2025-27	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	3	
C2028	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C2029	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2033	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C2040-42	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	3	
C2043	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C2070	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3001	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3004	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3005	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C3006	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3007	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3008	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3009	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3016	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3017	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3018	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3019, 20	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C3022	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3023	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3024	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3026	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3027	EGEV1AAN100	E. CAPACITOR CH 10V 10U	1	
C3028	EGEV0GA471	E. CAPACITOR CH 4V 470U	1	
C3029	EGEV1CA100	E. CAPACITOR CH 16V 10U	1	
C3030	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3031	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3033	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3035	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4001	ECYX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C4002	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4003	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1	
C4004	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4008	EGEV05A470	E. CAPACITOR CH 4V 47U	1	
C4009	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4011	EGEV05A470	E. CAPACITOR CH 4V 47U	1	
C4012	ECST0JX226Z	T. CAPACITOR CH 6.3V 22U	1	
C4014	ECUX1E223KBV	C. CAPACITOR CH 25V 0.022U	1	
C4015	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C4016	ECUM2A472JCM	C. CAPACITOR CH 100V 4700P	1	
C4017	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4019, 20	ECUX1C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C4021, 22	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C4023	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C4024	ECST1GY475Z	T. CAPACITOR CH 16V 4.7U	1	
C4025	ECST0JY685Z	T. CAAPCITOR CH 6.3V 6.8U	1	
C4026	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C4027	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U	1	
C4028	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C4029	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	
C4030	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4031	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C4032	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C4034	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4035	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C4036	ECST0JY335Z	T. CAPACITOR CH 6.3V 3.3U	1	
C4037	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4038	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4801	ECUX1C823KBV	C. CAPACITOR CH 16V 0.082U	1	
C4802	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C4803	ECUM1E273KBV	C. CAPACITOR CH 25V 0.027U	1	
C4804	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4805, 06	ECUM1E273KBV	C. CAPACITOR CH 25V 0.027U	2	
C4807	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4808	ECUX1H123KBV	C. CAPACITOR CH 50V 0.012U	1	
C5001-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C5005-08	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	4	
C5009, 10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5011	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5012, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5014	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5016	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5017	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5018	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5019	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5020, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5022	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5023	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5041	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C5501, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5504	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5505, 06	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5507	EGEV05A470	E. CAPACITOR CH 4V 47U	1	
C5508	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5509	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5510	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5511	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5512	EGEV05A470	E. CAPACITOR CH 4V 47U	1	
C5513	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5514	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5515	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C5516	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C5517	ECUX1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C5518	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5519	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5520	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C5521	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5522	ECUX1H090CCV	C. CAPACITOR CH 50V 9P	1	
C5523	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C5525	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5526	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C5527	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5530	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C5531	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5534	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6002	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C6003-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C6006, 07	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C6008	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C6009-11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C6012, 13	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	2	
C6014	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6016	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6018	EGEV1CA470P	E. CAPACITOR CH 16V 47U	1	
C6025	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6027	EGEV0GA101	E. CAPACITOR CH 4V 100U	1	
C6029	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6030	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C6031	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6032	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C6033, 34	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C6035	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C6039	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6042	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6049, 50	ECEV1CA100	E. CAPACITOR CH 16V 10U	2	
C6051	ECUX1E223KBV	C. CAPACITOR CH 25V 0.022U	1	
C6052	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C6060	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6061	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6201	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C6202	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C6203	EGEV1CA100	E. CAPACITOR CH 16V 10U	1	
C6204	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6206	EGEV0GA101	E. CAPACITOR CH 4V 100U	1	
C6207	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6208	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C6209	EGEV0JA220	E. CAPACITOR CH 6.3V 22U	1	
C6210	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
D204	1SS355	DIODE	1	
D303, 04	MA728	DIODE	2	
D1002	EC20QS06	DIODE	1	
D1006, 07	MA111	DIODE	2	
D1009	MA8180-M	DIODE	1	
D1015	EC15QS04	DIODE	1	
D1020	1SS355	DIODE	1	
D1601	MA8130M	DIODE	1	
D1603	MA8130M	DIODE	1	
D3001	MA133	DIODE	1	
D3004	MA111	DIODE	1	
D6001	MA111	DIODE	1	
D6002-04	MA132WA	DIODE	3	
D6005	MA111	DIODE	1	
D6006	MA728	DIODE	1	
D6008	MA111	DIODE	1	
D6009	MA133	DIODE	1	
D6010	MA111	DIODE	1	
D6011	MA133	DIODE	1	
D6012	MA132WA	DIODE	1	
D6013	MA133	DIODE	1	
D6016	MA133	DIODE	1	
D6201	MA111	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FP701	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
FP2001	VJS3911A007	CONNECTOR (FEMALE) 7P	1	
FP2002	VJS2959D018	CONNECTOR (FEMALE) 18P	1	
FP4001	VJS2958D009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3654B012	CONNECTOR (FEMALE) 12P	1	
FP5001	VJS2959B013	CONNECTOR (FEMALE) 13P	1	
FP6001	VJS2959D018	CONNECTOR (FEMALE) 18P	1	
FP6002	VJS2959B006	CONNECTOR (FEMALE) 6P	1	
FP6003	VJS3319B010	CONNECTOR (FEMALE) 10P	1	
FP6004	VJS3654B008	CONNECTOR (FEMALE) 8P	1	
FP6006	VJS3320B026	CONNECTOR (FEMALE) 26P	1	
IC202	MN31121SA	IC	1	
IC203	M52948FP	IC	1	
IC301	F712510APBW	IC	1	
IC302	M62366GP	IC	1	
IC303	XC62FP3302MR	IC	1	
IC304	UPD6461GS661	IC	1	
IC306	TC7W04F	IC	1	
IC701, 02	TB6526F	IC	2	
IC703	TA75S393F	IC	1	
IC706	NJM2115VA	IC	1	
IC710	MN1882421CA3	IC	1	
IC711	TA75W01FU	IC	1	
IC1001	BA9706K	IC	1	
IC2001	TB6518F	IC	1	
IC2002, 03	UN224	TRANSISTOR-RESISTOR	2	
IC3001	HA118603F	IC	1	
IC5001	AN3355FHP	IC	1	
IC5501	MSM7470-73MS	IC	1	
IC6001	MN675556BB	IC	1	
IC6002	MM1355AFFE	IC	1	
IC6003	TA75W393FU	IC	1	
IC6004	AK6480AF	IC	1	
IC6005	BA6289F	IC	1	
IC6006	TA75W393FU	IC	1	
IC6011	UPD75646557	IC	1	
L201	VLQ0426J470	COIL 47UH	1	
L205	VLQ0319K470	COIL 47UH	1	
L301	VLQ0426J2R2	COIL 2.2UH	1	
L302	VLQ0426J220	COIL 22UH	1	
L303	VLQ0426J6R8	COIL 6.8UH	1	
L306	VLQ0319K100	COIL 10UH	1	
L307	VLQ0426J220	COIL 22UH	1	
L703, 04	VLQ0319K100	COIL 10UH	2	
L1001	VLQ0833M4R7	COIL 4.7UH	1	
L1002	VLQ0833M220	COIL 22UH	1	
L1003	VLQ0834M4R7	COIL 4.7UH	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0833M101	COIL 100UH	1	
L1008	VLQ0834M4R7	COIL 4.7UH	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1014	VLQ0319K100	COIL 10UH	1	
L1015	VLQ0319K470	COIL 47UH	1	
L1062	VLQ0833M330	COIL 33UH	1	
L3002	VLQ0319K100	COIL 10UH	1	
L3003	VLQ0163J820	COIL 82UH	1	
L4005	VLQ0319K101	COIL 100UH	1	
L5001-04	VLQ0319K470	COIL 47UH	4	
L5501	VLQ0319K100	COIL 10UH	1	
L5502	VLQ0163J100	COIL 10UH	1	
L5503	ELJFC120ZB	CHIP INDUCTOR	1	
L5504	VLQ0163J390	COIL 39UH	1	
L5506	VLQ0319K470	COIL 47UH	1	
L5507	VLQ0163J121	COIL 120UH	1	
LB201, 02	VLP0153	COIL	2	
LB302-04	VLP0175	COIL	3	
LB1601, 02	VLP0307	COIL	2	
P1001	VJP3172D007	CONNECTOR (MALE) 7P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
PP201	VJP3358C012	CONNECTOR (MALE) 12P	1	
PP3001	VJP3359D040	CONNECTOR (MALE) 40P	1	
PS1003	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
PS3009	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
Q301	XP4401	TRANSISTOR	1	
Q302	XP4601	TRANSISTOR	1	
Q303	2SD2216	TRANSISTOR	1	
Q701-03	IMT17T110	TRANSISTOR	3	
Q704	2SD601A	TRANSISTOR	1	
Q705	2SD1030	TRANSISTOR	1	
Q706	IMT17T110	TRANSISTOR	1	
Q1001	2SA1731-R	TRANSISTOR	1	
Q1003	MPL1	TRANSISTOR	1	
Q1004	2SD2210	TRANSISTOR	1	
Q1010	2SB1462-R	TRANSISTOR	1	
Q1062	MPL1	TRANSISTOR	1	
Q3001	XP4501	TRANSISTOR-TRANSISTOR	1	
Q3002	XP4401	TRANSISTOR	1	
Q3010	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4001	XP6401	TRANSISTOR	1	
Q4002	2SD602-R	TRANSISTOR	1	
Q4003	2SB1219	TRANSISTOR	1	
Q4004	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4006	2SB1462-R	TRANSISTOR	1	
Q4007	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4009	2SD2216	TRANSISTOR	1	
Q4014	XP4601	TRANSISTOR	1	
Q4801	2SD2216	TRANSISTOR	1	
Q4802	XP4501	TRANSISTOR-TRANSISTOR	1	
Q5001, 02	XN4504	TRANSISTOR	2	
Q5003	2SA812	TRANSISTOR	1	
Q5501	2SD2216	TRANSISTOR	1	
Q5502	2SB1462-R	TRANSISTOR	1	
Q5503	2SD2216	TRANSISTOR	1	
Q6002	2SD2216	TRANSISTOR	1	
Q6005	XP1501	TRANSISTOR-RESISTOR	1	
Q6006	2SB1462-R	TRANSISTOR	1	
Q6007	2SD2216	TRANSISTOR	1	
Q6201	2SB1462-R	TRANSISTOR	1	
QR201	XP1212	TRANSISTOR-RESISTOR	1	
QR701	MRN1102	TRANSISTOR-RESISTOR	1	
QR1001	MRN2102	TRANSISTOR-RESISTOR	1	
QR1005	UN9217	TRANSISTOR-RESISTOR	1	
QR1061	MRN2111	TRANSISTOR-RESISTOR	1	
QR2002	MRN1111	TRANSISTOR-RESISTOR	1	
QR3001	MRN1104	TRANSISTOR-RESISTOR	1	
QR4003	MRN2103	TRANSISTOR-RESISTOR	1	
QR4004	XP1215	TRANSISTOR-RESISTOR	1	
QR4005	MRN1104	TRANSISTOR-RESISTOR	1	
QR4008	MRN1104	TRANSISTOR-RESISTOR	1	
QR5502	MRN1103	TRANSISTOR-RESISTOR	1	
QR5504	MRN1104	TRANSISTOR-RESISTOR	1	
QR5505	XP1213	TRANSISTOR-RESISTOR	1	
QR6001	MRN2111	TRANSISTOR-RESISTOR	1	
QR6002	UN9210	TRANSISTOR-RESISTOR	1	
QR6003	MRN2103	TRANSISTOR-RESISTOR	1	
QR6004	XP4115	TRANSISTOR-RESISTOR	1	
QR6007	MRN1102	TRANSISTOR-RESISTOR	1	
QR6008	MRN1104	TRANSISTOR-RESISTOR	1	
QR6012	MRN1104	TRANSISTOR-RESISTOR	1	
QR6014	UN9210	TRANSISTOR-RESISTOR	1	
QR6015	MRN1111	TRANSISTOR-RESISTOR	1	
QR6050	XP1213	TRANSISTOR-RESISTOR	1	
R201	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R204, 05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R208	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R209-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R212	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R214	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R220	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R221	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R225	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R226	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R227, 28	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R302	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R303, 04	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R305	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R306	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R307	ERJ3RBD513	M. RESISTOR CH 1/16W 51K	1	
R308	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R309	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R310, 11	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R312	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R313	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R314	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R315	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R317	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R318, 19	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R320	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R321	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R322	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R323	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R324	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R325	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R326	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R327	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R328	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R329	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R331	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R332	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R333	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R334	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R335, 36	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R337, 38	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R339, 40	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R341	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R342, 43	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R344	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R402	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R701-04	ERJ3GEYJ3R3	M. RESISTOR CH 1/16W 3.3	4	
R705, 06	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R707	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R709	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R710	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R711	ERJ3GEYJ335	M. RESISTOR CH 1/16W 3.3M	1	
R713	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R714	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R716	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R717	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R718	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R719	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R720	ERJ3GEYG113	M. RESISTOR CH 1/16W 11K	1	
R721	ERJ3GEYG183	M. RESISTOR CH 1/16W 18K	1	
R722	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R723	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R724, 25	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R726	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R727	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R728	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R729	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R730	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R731	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R732	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R733	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R734, 35	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R736, 37	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	2	
R738	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R740	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R741, 42	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R743	ERJ3RBD622	M. RESISTOR CH 1/16W 6.2K	1	
R745	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R757, 58	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R761	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R1001	ERJ6RBD822	M. RESISTOR CH 1/10W 8.2K	1	
R1002	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1	
R1005	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1	
R1006	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1	
R1007	ERJ8GEYJ330	M. RESISTOR CH 1/8W 33	1	
R1008	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R1009	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R1012	ERJ6RHD1872	M. RESISTOR CH 1/10W 18.7K	1	
R1013	ERJ6RBD473	M. RESISTOR CH 1/10W 47K	1	
R1014, 15	ERJ6RBB182	M. RESISTOR CH 1/10W 1.8K	2	
R1016	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R1017	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1018	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R1019	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1020	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R1021	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1022	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	
R1023	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1024	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1025	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1035	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1038	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1039	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R1040	ERJ3RBD111	M. RESISTOR CH 1/16W 110	1	
R1051	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R1052	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R1057	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.0K	1	
R1063	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1065	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1066	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1068	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1071	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1072	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1073	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1085, 86	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
⚠ R1601	VSF0226D25T	FUSE	1	
R1602	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R1603	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R1699	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R1726	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1727	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R1805-07	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R1884	ERJ8GEY0R00	M. RESISTOR CH 1/8W 0	1	
R2001	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R2002	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R2003	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R2004	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R2005	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R2006	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R2007	ERJ8GEYJR47	M. RESISTOR CH 1/8W 0.47	1	
R2008	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1	
R2009	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R2010	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2012	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R2015	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R2016	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R2017	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R2018	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R2019, 20	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R2021	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R2022	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1	
R2024	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2040-42	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	3	
R3001	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3002	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3004	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3005	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3006	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3007	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R3009	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3010	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3018	ERJ3GEYJ225	M. RESISTOR CH 1/16W 2.2M	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3020	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R3022	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3023	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R3025	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R3026	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3034	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3057	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3058	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3059	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R3060	ERJ3RED620	M. RESISTOR CH 1/16W 62	1	
R4001	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R4002	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4004	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4005	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R4006	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4007	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4008	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4009	ERJ3GEYJ225	M. RESISTOR CH 1/16W 2.2M	1	
R4010	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R4011	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4012	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4013	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R4014	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4015, 16	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4017	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4018	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R4019	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R4020	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R4021	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R4022	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4023	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R4024	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4025	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4026	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R4027, 28	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R4029	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R4030	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R4031	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R4032	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4033	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4034	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4035	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R4036	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4037	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4038	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R4040	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4041	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R4042	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R4048	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4060	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R4801	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R4802	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4803	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4804	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R4805	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1	
R4806	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R4807	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R4808, 09	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	2	
R4810	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R4811	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4812	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4824	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5001	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5002, 03	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R5004	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5005	ERJ3GEYG113	M. RESISTOR CH 1/16W 11K	1	
R5007	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R5008	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7	1	
R5009	ERJ3GEYJ274	M. RESISTOR CH 1/16W 270K	1	
R5010	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5500	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5502	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R5503	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5504	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5505	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5508	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5510	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5513	ERJ3GEYJ225	M. RESISTOR CH 1/16W 2.2M	1	
R5514	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5515	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5516	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5517	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5521	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R5522	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R5523	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5524	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5526, 27	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R6001	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R6002	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R6003, 04	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	2	
R6005	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R6007	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6008	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R6009	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R6010	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6011	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6012	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R6013	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6014	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R6015	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6016	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R6017	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R6018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6019	ERJ3GEYG622	M. RESISTOR CH 1/16W 6.2K	1	
R6020	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6021	ERJ8GEYJ120	M. RESISTOR CH 1/8W 12	1	
R6022	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R6023	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6024	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6025	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R6026	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6027	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R6028	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6030	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6031, 32	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R6033	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R6034	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6035	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6036	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6037	ERJ3RBD363	M. RESISTOR CH 1/16W 36K	1	
R6038	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6039	ERJ8GEYJ2R2	M. RESISTOR CH 1/8W 2.2	1	
R6040	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R6042	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R6044	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R6045	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R6046	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R6047	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6050, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R6053	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6056	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6057, 58	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R6059	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6062, 63	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R6065	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R6067	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R6068	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6069	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R6082	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6085	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6086	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6087	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R6089	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6095	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R6097	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6098, 99	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R6100	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6202	ERJ8GEYJ2R2	M. RESISTOR CH 1/8W 2.2	1	
R6204	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6205	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6206-08	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R6209	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6210	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R6211	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6801	ERJ8GEYJ330	M. RESISTOR CH 1/8W 33	1	
R6802	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
RA201	EXBV4V104J	RESISTOR-RESISTOR	1	
RA202	EXBV8V104J	RESISTOR-RESISTOR	1	
RA703, 04	EXBV4V473J	RESISTOR-RESISTOR	2	
RA6001	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6002	EXBV8V683J	RESISTOR-RESISTOR	1	
RA6004, 05	EXBV8V102J	RESISTOR-RESISTOR	2	
RA6006	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6008	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6009	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6011	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6013	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6014, 15	EXBV8V683J	RESISTOR-RESISTOR	2	
T1001	ELL04T075R	TRANSFORMER	1	
T1002	VTP0357	TRANSFORMER	1	
T4001	EI060B008	TRANSFORMER	1	
X301	VSX0916	CRYSTAL OSCILLATOR	1	
X701	VSX0946	CERAMIC OSCILLATOR	1	
X5501	VSX0933	CRYSTAL OSCILLATOR	1	
X6001	VSX0917	CRYSTAL OSCILLATOR	1	
X6002	VSX0601	GRYSTAL OSCILLATOR	1	
X6003	VSX0678	CERAMIC OSCILLATOR	1	
■	VEP28249A	E. V. F. (A) C. B. A.		(RTL)
C801	ECEV1CA470FP	E. CAPACITOR CH 16V 47U	1	
C802	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C803	ECYX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C804	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C805	ECSTOJY106Z	T. CAPACITOR CH 6.3V 10U	1	
C806	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C810	ECEV1CA470FP	E. CAPACITOR CH 16V 47U	1	
C811	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C812	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C813, 14	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
C820-25	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C827-33	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	7	
C835	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C836	ECSTOJY335Z	T. CAPACITOR CH 6.3V 3.3U	1	
C837	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C838	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	1	
C839	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C840	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C841	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C842	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C843	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C844	ECSTOJX156Z	T. CAPACITOR CH 6.3V 15U	1	
C845	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C846-48	ECST1CY475Z	T. CAPACITOR CH 16V 4.7U	3	
C849	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C850	ECEV1CA470FP	E. CAPACITOR CH 16V 47U	1	
C851	ECSTOJY106Z	T. CAPACITOR CH 6.3V 10U	1	
C852	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C853	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C879	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C880-82	ECST1CY475Z	T. CAPACITOR CH 16V 4.7U	3	
C883-85	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3	
C892	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
D801, 02	1SS355	DIODE	2	
D804	MA338	DIODE	1	
IC801	FA7610N	IC	1	
IC802	CXA1854AR	IC	1	
IC891	P02OVZ1U	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L801	VLQ0319K470	COIL 47UH	1	
L802	VLQ0319F150	COIL 15UH	1	
L803	VLQ0163J470	COIL 47UH	1	
L804	VLQ0319K331	COIL 330UH	1	
L805	VLQ0163J470	COIL 47UH	1	
L806	VLQ0163J120	COIL 12UH	1	
P804	VJP3172D007	CONNECTOR (MALE) 7P	1	
PS801	VJS2961C020	CONNECTOR (FEMALE) 20P	1	
Q801	2SD1328-S	TRANSISTOR	1	
Q802	2SD2216	TRANSISTOR	1	
Q803	XN4601	TRANSISTOR-TRANSISTOR	1	
R801	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R802	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R803	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R804	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R805	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R806	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R807	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R808	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R810	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R811	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R812, 13	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R820-25	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	6	
R826	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R827	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R828	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R829	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R830-32	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	3	
R833	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R834, 35	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2	
R836	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R837	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R838	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R839	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R841	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R842	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R843	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R844-47	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	4	
R848	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R849	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R850	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R851	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R853	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R855	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R856	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R857	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R858	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R859	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R860	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R861-63	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	3	
R864	ERJ3RHD1692	M. RESISTOR CH 1/16W 16.9K	1	
R865	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R866	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R890	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R892	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R893	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R894	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
T801	ELL7SRD007	CHOKE COIL	1	
VR802-06	VRV0292B223	VARIABLE RESISTOR	5	
VR808	VRV0292B223	VARIABLE RESISTOR	1	
VR809	VRV0292B471	VARIABLE RESISTOR	1	
VR810	VRV0292B223	VARIABLE RESISTOR	1	
X801	VSX0672	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC4457	EVF SHIELD COVER (TOP)	1	
	VSC4458	EVF SHIELD COVER (BOTTOM)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP28250A	E.V.F. (B) C.B.A.		(RTL)
C893	VCEZ0JAU156Z	E.CAPACITOR	1	
FP803	VJS4020A016	CONNECTOR (FEMALE) 16P	1	
L891	VLQ0770	COIL	1	
P801	VJP3172D003	CONNECTOR (MALE) 3P	1	
PP802	VJP3126D020	CONNECTOR (MALE) 20P	1	
■	VEP28251A	E.V.F. (C) C.B.A.		(RTL)
BL891	VLL0193	FLUORESCENT LAMP	1	
Q891	2SK1299-3S	TRANSISTOR	1	
R891	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
T891	ETJ09K42AM	TRANSFORMER	1	
		MISCELLANEOUS		
	VEE0C83	WIRE CABLE	1	
	VSC4736	EVF SHIELD COVER	1	
	VGQ4177	BACK LIGHT HOLDER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Memo

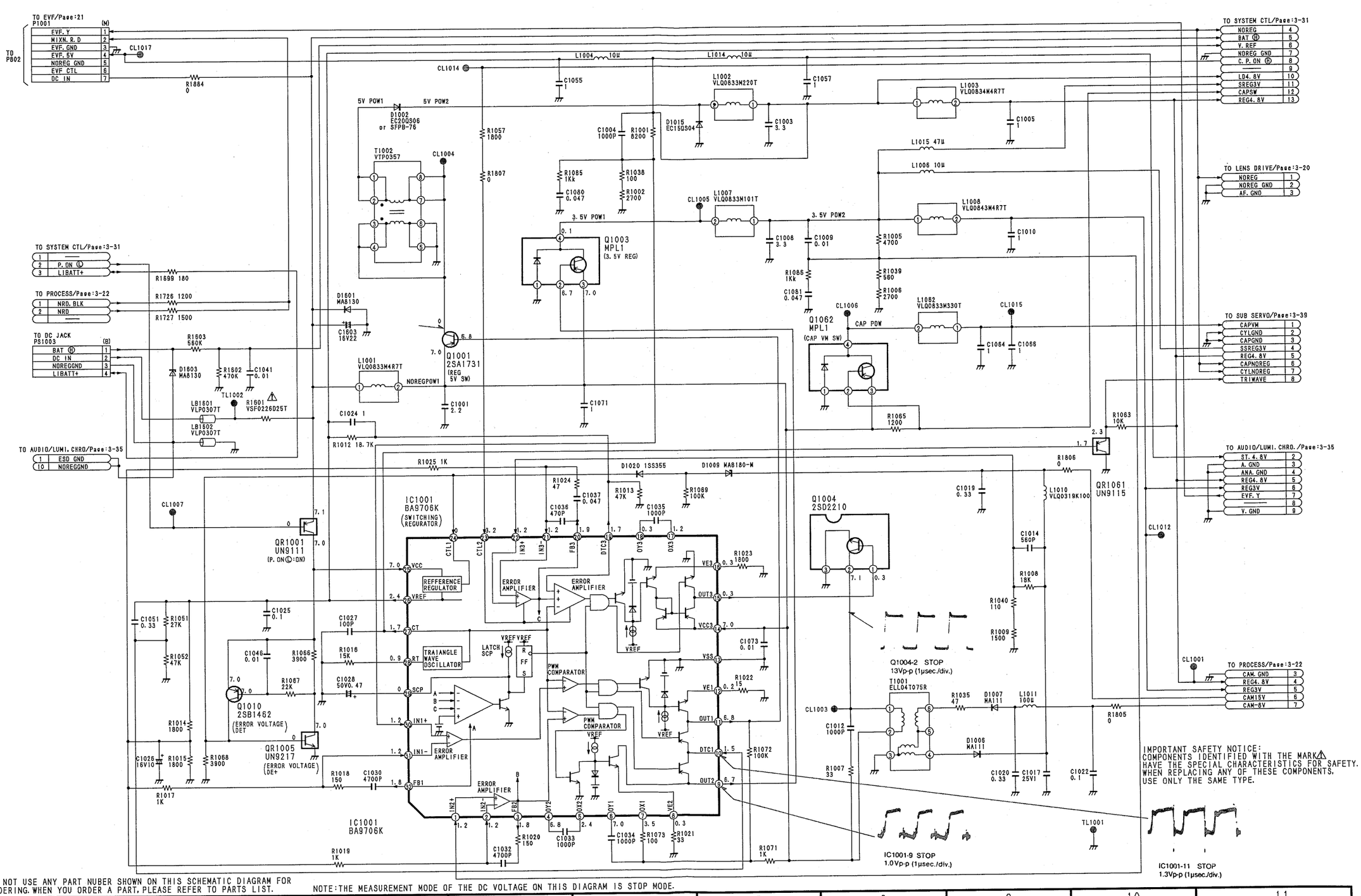
INTERNAL REFERENCE CODES	
NOTE: This chart is only for internal reference. Do not order any parts according to these codes.	
P.C.B.	FILM CODE
CAMERA/MAIN	HOKU00-23449
E.V.F. (A)	HOKU00-28249
E.V.F. (B)	HOKU00-28250
E.V.F. (C)	HOKU00-28251

Panasonic

MATSUSHITA ELECTRIC

Printed in Japan

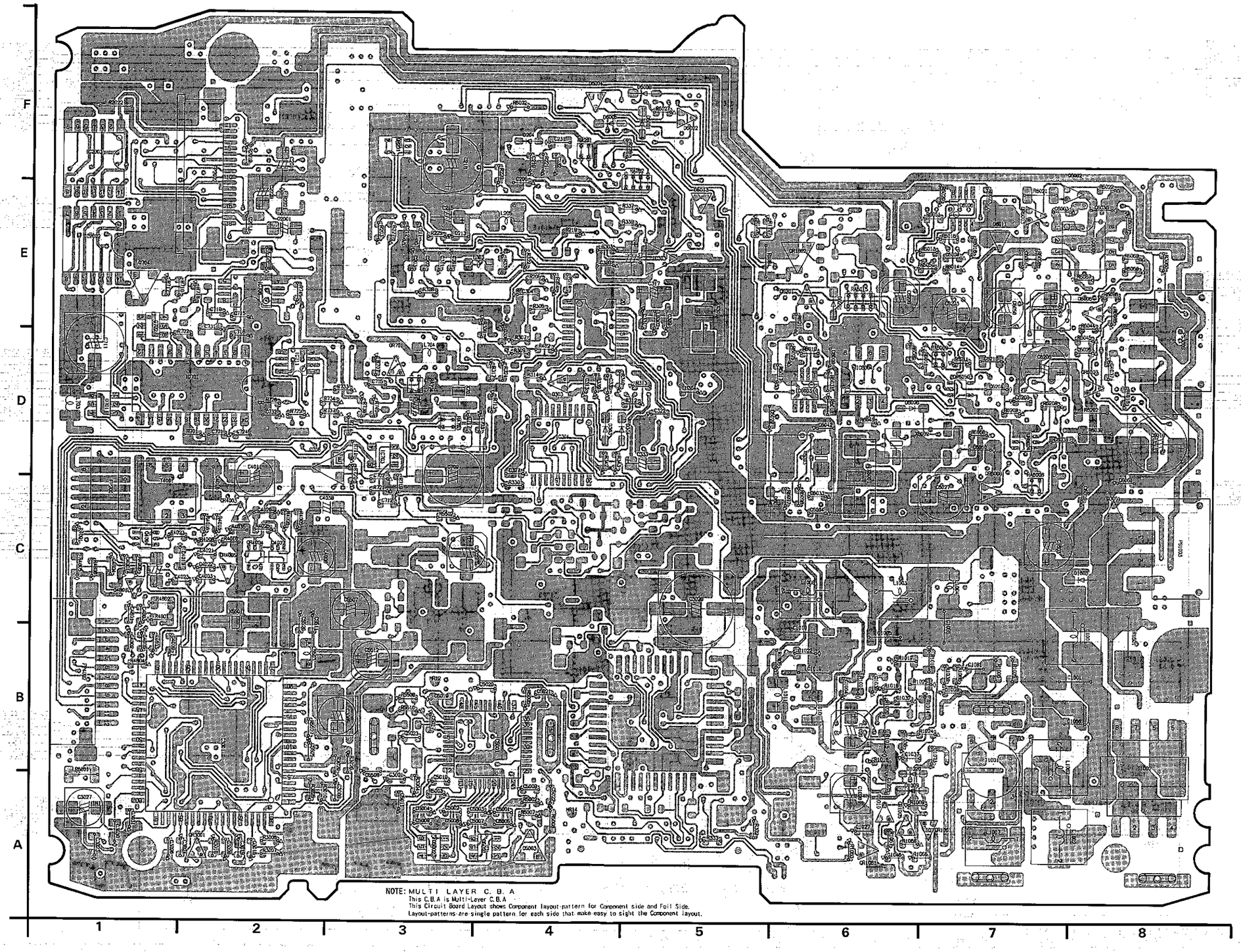
7. POWER SCHEMATIC DIAGRAM



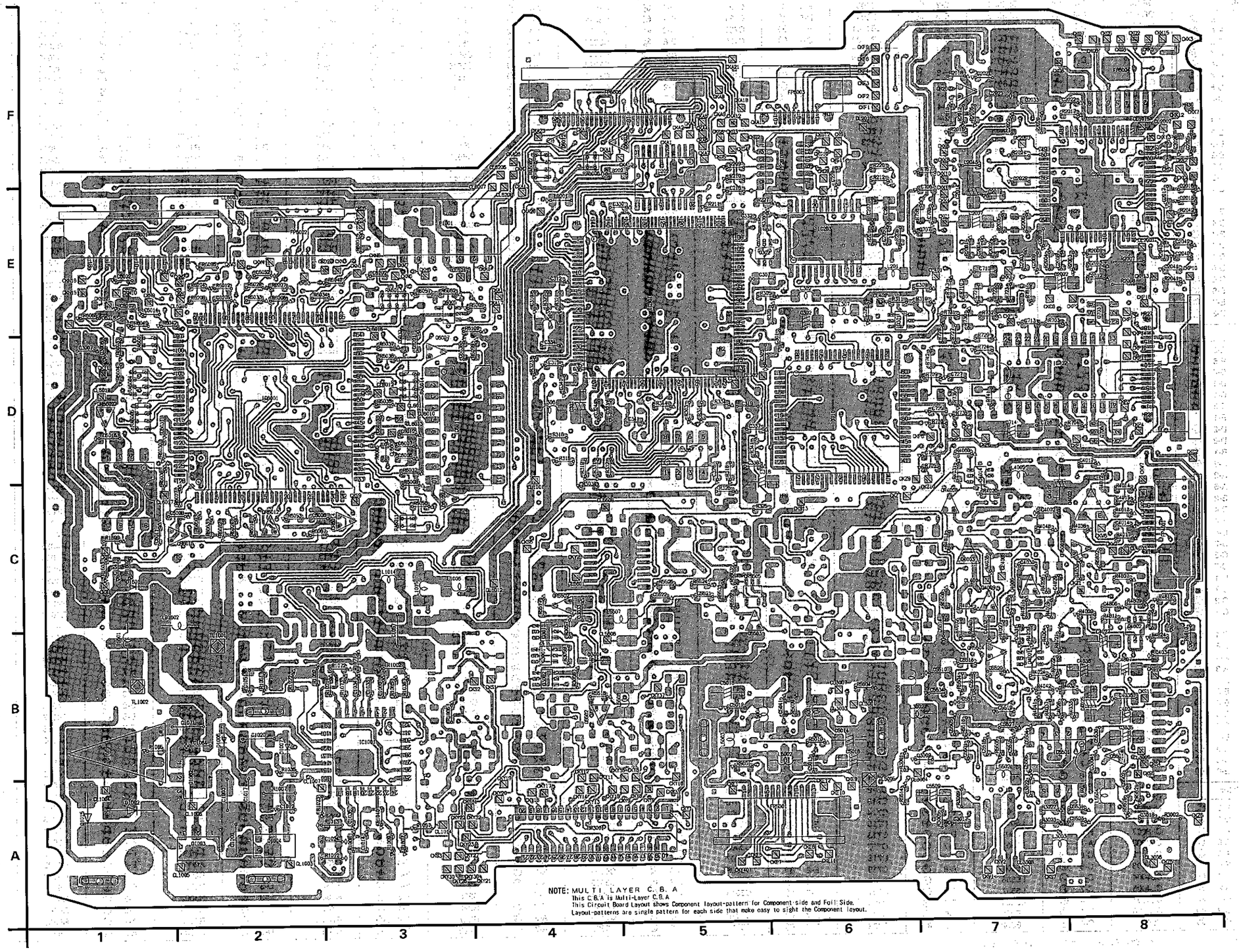
NOTE:DO NOT USE ANY PART NUBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

8. CAMERA/MAIN [SENSOR, LENS DRIVE, PROCESS, POWER, SYSTEM CONTROL & SERVO, LUMINANCE/CHROMINANCE /HEAD AMP & AUDIO, SUB SERVO Sections] C.B.A. (VEP23449F)



Back Page:
OWER Section


F
E
D
C
B
A
1
2
3
4
5
6
7
8
NOTE: MULTI LAYER C. B. A
This C.B.A is Multi-Layer C.B.A
This Circuit Board Layout shows Component layout-pattern for Component-side and Foil Side.
Layout-patterns are single pattern for each side that make easy to sight the Component layout.

MAIN C.B.A. ADDRESS INFORMATIONS

CAM/MAIN C.B.A.

Integrated circuit

IC202	F-5	Ⓕ
IC203	E-6	Ⓕ
IC301	E-5	Ⓕ
IC302	D-4	Ⓒ
IC303	E-5	Ⓒ
IC304	D-4	Ⓒ
IC306	D-5	Ⓕ
IC701	D-2	Ⓒ
IC702	D-7	Ⓒ
IC703	D-3	Ⓒ
IC706	E-2	Ⓒ
IC710	D-6	Ⓕ
IC711	D-2	Ⓒ
IC1001	B-3	Ⓕ
IC2001	F-8	Ⓕ
IC2002	E-1	Ⓒ
IC2003	F-1	Ⓒ
IC3001	B-2	Ⓒ
IC5001	B-4	Ⓒ
IC5501	B-7	Ⓕ
IC6001	D-1	Ⓕ
IC6002	D-1	Ⓕ
IC6003	D-6	Ⓒ
IC6004	D-6	Ⓒ
IC6005	E-8	Ⓒ
IC6006	E-7	Ⓒ
IC6011	D-3	Ⓕ

Transistor

Q301	E-6	Ⓕ
Q302	E-6	Ⓕ
Q303	D-4	Ⓒ
Q701	D-1	Ⓒ
Q702	D-1	Ⓒ
Q703	E-8	Ⓕ
Q704	E-1	Ⓒ
Q705	D-2	Ⓒ
Q706	D-8	Ⓕ
Q1001	B-1	Ⓕ
Q1003	A-2	Ⓕ
Q1004	A-2	Ⓕ
Q1010	A-6	Ⓒ
Q1062	B-2	Ⓕ
Q3001	B-4	Ⓕ
Q3002	B-4	Ⓕ
Q3010	B-4	Ⓕ
Q4001	B-7	Ⓕ
Q4002	C-8	Ⓕ
Q4003	C-7	Ⓕ
Q4004	C-1	Ⓒ
Q4006	C-7	Ⓕ
Q4007	C-2	Ⓒ
Q4009	C-7	Ⓕ
Q4014	D-7	Ⓕ
Q4801	C-1	Ⓒ
Q4802	B-8	Ⓕ
Q5001	A-4	Ⓒ
Q5002	A-3	Ⓒ
Q5003	A-4	Ⓒ
Q5501	B-8	Ⓕ
Q5502	B-4	Ⓕ
Q5503	B-5	Ⓕ
Q6002	F-7	Ⓒ
Q6005	E-3	Ⓕ
Q6006	E-8	Ⓒ
Q6007	D-3	Ⓕ
Q6201	E-6	Ⓒ

Transistor & Resistor

QR201	F-3	Ⓒ
QR701	D-3	Ⓒ
QR1001	A-7	Ⓒ
QR1005	A-6	Ⓒ
QR1061	A-6	Ⓒ
QR1882	E-6	Ⓒ
QR2002	F-7	Ⓕ
QR3001	A-2	Ⓒ
QR4003	C-2	Ⓒ
QR4004	C-2	Ⓒ
QR4005	C-2	Ⓒ
QR4008	C-7	Ⓕ
QR5502	C-4	Ⓕ
QR5504	B-7	Ⓕ
QR5505	C-5	Ⓕ
QR6001	C-8	Ⓕ
QR6002	D-1	Ⓕ
QR6003	E-7	Ⓒ
QR6004	D-7	Ⓒ
QR6007	D-8	Ⓒ
QR6008	C-7	Ⓒ
QR6012	C-2	Ⓕ
QR6014	C-3	Ⓕ
QR6015	C-2	Ⓕ
QR6050	D-7	Ⓒ

Diode

D204	F-4	Ⓒ
D303	D-4	Ⓒ
D304	D-4	Ⓒ
D1002	A-1	Ⓕ
D1006	B-2	Ⓕ
D1007	B-2	Ⓕ
D1009	A-6	Ⓒ
D1015	A-1	Ⓕ
D1020	B-6	Ⓒ
D1601	C-1	Ⓕ
D1603	C-8	Ⓒ
D3001	C-8	Ⓒ
D3004	B-4	Ⓕ
D6001	F-5	Ⓒ
D6002	F-5	Ⓒ
D6003	F-5	Ⓕ
D6004	F-4	Ⓒ
D6005	F-4	Ⓒ
D6006	D-6	Ⓒ
D6008	F-5	Ⓒ
D6009	C-3	Ⓕ
D6010	C-5	Ⓒ
D6011	E-7	Ⓒ
D6012	F-4	Ⓕ
D6013	E-5	Ⓒ
D6016	E-1	Ⓕ
D6201	E-6	Ⓒ

Transformer

T1001	B-7	Ⓒ
T1002	B-8	Ⓒ
T4001	C-1	Ⓒ

Test Point

CL201	F-6	Ⓕ
CL301	D-5	Ⓕ
CL302	D-5	Ⓕ
CL401	E-7	Ⓕ
CL402	E-6	Ⓕ
CL1001	C-4	Ⓕ
CL1003	A-2	Ⓕ
CL1004	A-1	Ⓕ
CL1005	A-2	Ⓕ
CL1006	A-2	Ⓕ
CL1007	A-2	Ⓕ
CL1012	C-4	Ⓕ
CL1014	A-3	Ⓕ
CL1015	F-8	Ⓕ
CL1017	E-3	Ⓕ
CL2001	E-8	Ⓕ
CL2002	F-8	Ⓕ
CL2003	F-7	Ⓕ
CL3001	B-6	Ⓕ
CL3003	B-6	Ⓕ
CL3004	A-6	Ⓕ
CL3005	B-8	Ⓕ
CL3006	A-8	Ⓕ
CL3007	B-6	Ⓕ
CL3008	A-7	Ⓕ
CL4002	C-8	Ⓕ
CL4003	C-8	Ⓕ
CL4004	C-7	Ⓕ
CL4005	C-7	Ⓕ
CL5601	C-4	Ⓕ
CL5606	B-4	Ⓕ
CL5608	C-4	Ⓕ
CL6003	E-2	Ⓕ
CL6009	D-3	Ⓕ
CL6010	D-3	Ⓕ
CL6011	D-3	Ⓕ
CL6012	D-3	Ⓕ
CL6013	D-3	Ⓕ
CL6016	E-3	Ⓕ
CL6017	C-1	Ⓕ
CL6018	D-1	Ⓕ
CL6206	F-4	Ⓕ
CL6207	E-4	Ⓕ
CL6208	E-4	Ⓕ
CL6210	E-2	Ⓕ
CL6211	E-2	Ⓕ
TL1001	B-2	Ⓕ
TL1002	B-1	Ⓕ
TL5005	A-6	Ⓕ

Conector

FP701	D-8	Ⓕ
FP2001	C-1	Ⓒ
FP2002	F-2	Ⓒ
FP4001	C-8	Ⓕ
FP4002	B-1	Ⓒ
FP5001	A-6	Ⓕ
FP6001	E-1	Ⓕ
FP6002	E-3	Ⓕ
FP6003	F-6	Ⓕ
FP6004	F-8	Ⓕ
FP6006	F-5	Ⓕ
P1001	E-3	Ⓕ
PP201	F-6	Ⓕ
PP3001	A-4	Ⓕ
PS1003	C-8	Ⓒ
PS3009	C-8	Ⓒ

Crystal Oscillator

X301	E-5	Ⓒ
X701	D-3	Ⓒ
X5501	C-2	Ⓒ
X6001	D-6	Ⓒ
X6002	D-6	Ⓒ
X6003	D-6	Ⓒ

Coil

L201	E-6	Ⓕ
L205	E-4	Ⓒ
L301	E-4	Ⓕ
L302	E-6	Ⓕ
L303	E-3	Ⓒ
L306	D-4	Ⓕ
L307	E-6	Ⓕ
L703	D-1	Ⓒ
L704	D-3	Ⓒ
L1001	B-8	Ⓒ
L1002	A-7	Ⓒ
L1003	C-6	Ⓒ
L1004	C-7	Ⓒ
L1006	C-3	Ⓕ
L1007	A-7	Ⓒ
L1008	C-6	Ⓒ
L1010	B-6	Ⓒ
L1011	B-6	Ⓒ
L1014	C-3	Ⓕ
L1015	C-3	Ⓕ
L1062	B-7	Ⓒ
L3002	B-6	Ⓕ
L3003	A-7	Ⓕ
L4005	D-7	Ⓕ
L5001	B-6	Ⓕ
L5002	B-6	Ⓕ
L5003	B-5	Ⓕ
L5004	B-5	Ⓕ
L5501	B-6	Ⓕ
L5502	B-7	Ⓕ
L5503	B-2	Ⓒ
L5504	A-8	Ⓕ
L5506	B-4	Ⓕ
L5507	C-4	Ⓕ
LB201	E-4	Ⓕ
LB202	F-5	Ⓕ
LB302	E-5	Ⓒ
LB303	E-4	Ⓒ
LB304	D-5	Ⓒ
LB1601	B-1	Ⓕ
LB1602	C-1	Ⓕ

Capacitor

C201	E-3	Ⓒ
C202	E-3	Ⓒ
C203	E-3	Ⓒ
C205	E-6	Ⓕ
C206	F-4	Ⓒ
C207	E-6	Ⓕ
C208	E-6	Ⓕ
C211	E-3	Ⓒ
C212	E-3	Ⓒ
C213	E-3	Ⓒ
C215	E-3	Ⓒ
C216	E-5	Ⓕ
C218	F-3	Ⓒ
C219	F-4	Ⓒ
C228	F-6	Ⓕ
C231	F-4	Ⓒ
C232	F-4	Ⓒ
C301	D-6	Ⓕ
C302	E-6	Ⓕ
C304	E-4	Ⓒ
C305	D-5	Ⓕ
C307	E-6	Ⓕ
C308	D-4	Ⓒ
C309	E-7	Ⓕ
C310	E-4	Ⓕ
C311	E-3	Ⓒ
C312	E-4	Ⓕ
C313	D-4	Ⓒ
C315	D-4	Ⓕ
C316	E-5	Ⓒ
C317	E-5	Ⓒ
C318	D-6	Ⓕ
C319	D-5	Ⓕ
C321	D-4	Ⓕ
C322	D-5	Ⓒ
C323	D-4	Ⓕ
C324	D-4	Ⓕ
C325	E-6	Ⓕ
C326	E-4	Ⓒ
C327	D-4	Ⓒ
C328	D-5	Ⓕ
C329	E-5	Ⓒ
C330	E-5	Ⓕ
C331	E-5	Ⓒ
C332	E-5	Ⓕ
C333	D-5	Ⓒ
C334	D-4	Ⓕ
C335	D-4	Ⓒ
C337	D-5	Ⓕ
C338	D-5	Ⓕ
C340	D-4	Ⓕ
C341	D-5	Ⓕ
C701	D-2	Ⓒ
C702	D-3	Ⓒ
C703	D-4	Ⓒ
C704	D-3	Ⓒ
C705	D-3	Ⓒ
C706	E-7	Ⓕ
C707	E-7	Ⓕ
C708	E-7	Ⓕ
C709	E-3	Ⓒ
C710	D-7	Ⓕ
C711	D-1	Ⓒ
C712	C-3	Ⓒ
C713	E-7	Ⓕ
C714	D-7	Ⓕ
C715	E-2	Ⓒ
C716	D-7	Ⓕ
C717	D-3	Ⓒ
C718	D-2	Ⓒ
C719	E-2	Ⓒ
C720	E-2	Ⓒ
C721	E-7	Ⓕ
C724	D-2	Ⓒ
C725	D-7	Ⓕ
C726	D-7	Ⓕ
C727	D-7	Ⓕ
C731	D-2	Ⓒ
C732	D-2	Ⓒ
C1001	B-8	Ⓒ
C1003	A-2	Ⓕ
C1004	B-6	Ⓒ
C1005	B-6	Ⓒ
C1008	A-2	Ⓕ
C1009	B-7	Ⓒ
C1010	B-6	Ⓒ
C1012	A-2	Ⓕ
C1014	A-3	Ⓕ
C1017	A-2	Ⓕ
C1019	B-6	Ⓒ
C1020	B-2	Ⓕ
C1022	B-6	Ⓒ
C1024	A-3	Ⓕ
C1025	A-6	Ⓒ
C1026	B-6	Ⓒ
C1027	A-6	Ⓒ
C1028	A-6	Ⓒ
C1030	B-6	Ⓒ
C1032	B-6	Ⓒ
C1033	B-3	Ⓕ
C1034	B-3	Ⓕ
C1035	A-3	Ⓕ
C1036	B-6	Ⓒ
C1037	B-6	Ⓒ
C1041	C-1	Ⓕ
C1046	A-6	Ⓒ
C1051	B-2	Ⓕ
C1055	B-7	Ⓒ
C1057	B-3	Ⓕ
C1064	B-2	Ⓕ
C1066	B-8	Ⓒ
C1071	B-2	Ⓕ
C1073	B-7	Ⓒ
C1080	B-3	Ⓕ
C1081	B-7	Ⓒ
C1603	C-7	Ⓒ
C2001	E-2	Ⓒ
C2002	E-7	Ⓕ
C2003	E-7	Ⓕ
C2004	E-7	Ⓕ
C2005	E-7	Ⓕ
C2007	E-7	Ⓕ
C2009	E-7	Ⓕ
C2010	E-7	Ⓕ
C2011	E-2	Ⓒ
C2012	E-8	Ⓕ
C2013	E-8	Ⓕ
C2014	E-7	Ⓕ
C2015	E-8	Ⓕ
C2016	E-8	Ⓕ
C2017	E-8	Ⓕ
C2018	F-2	Ⓒ
C2020	F-7	Ⓕ
C2021	F-7	Ⓕ
C2022	F-8	Ⓕ
C2023	F-7	Ⓕ
C2025	F-8	Ⓕ
C2026	F-8	Ⓕ
C2027	F-8	Ⓕ
C2028	E-2	Ⓒ
C2029	E-7	Ⓕ
C2033	F-7	Ⓕ
C2040	E-8	Ⓕ
C2041	E-8	Ⓕ
C2042	E-8	Ⓕ
C2043	F-7	Ⓕ
C2070	E-7	Ⓕ
C3001	A-3	Ⓒ
C3004	B-8	Ⓕ
C3005	B-3	Ⓒ
C3006	D-1	Ⓕ
C3007	D-1	Ⓕ
C3008	A-3	Ⓒ
C3009	B-7	Ⓕ
C3016	A-2	Ⓒ
C3017	A-7	Ⓕ
C3018	A-8	Ⓕ
C3019	A-2	Ⓒ
C3020	A-2	Ⓒ
C3022	A-7	Ⓕ
C3023	A-1	Ⓒ
C3024	A-2	Ⓒ
C3026	A-1	Ⓒ
C3027	A-1	Ⓒ
C3028	C-5	Ⓒ
C3029	C-3	Ⓒ
C3030	A-1	Ⓒ
C3031	A-1	Ⓒ
C3033	C-4	Ⓕ
C3035	B-8	Ⓕ
C4001	C-1	Ⓒ
C4002	C-7	Ⓕ
C4003	C-2	Ⓒ
C4004	B-8	Ⓕ
C4008	C-2	Ⓒ
C4009	B-1	Ⓒ
C4011	D-2	Ⓒ
C4012	C-7	Ⓕ
C4014	C-8	Ⓕ
C4015	C-8	Ⓕ
C4016	C-2	Ⓒ
C4017	D-8	Ⓕ
C4019	C-2	Ⓒ
C4020	C-2	Ⓒ
C4021	C-2	Ⓒ
C4022	C-2	Ⓒ
C4023	C-1	Ⓒ
C4024	C-1	Ⓒ
C4025	B-8	Ⓕ
C4026	B-7	Ⓕ
C4027	B-8	Ⓕ
C4028	C-7	Ⓕ
C4029	C-7	Ⓕ
C4030	C-7	Ⓕ
C4031	B-7	Ⓕ
C4032	B-7	Ⓕ
C4034	B-8	Ⓕ
C4035	B-8	Ⓕ
C4036	B-8	Ⓕ
C4037	D-8	Ⓒ
C4038	C-2	Ⓒ
C4801	C-1	Ⓒ
C4802	B-1	Ⓒ
C4803	C-1	Ⓒ
C4804	C-1	Ⓒ
C4805	B-1	Ⓒ
C4806	C-8	Ⓕ
C4807	B-8	Ⓕ
C4808	B-8	Ⓕ
C5001	A-4	Ⓒ
C5002	A-3	Ⓒ
C5003	A-3	Ⓒ
C5004	A-3	Ⓒ
C5005	A-4	Ⓒ
C5006	A-3	Ⓒ
C5007	A-3	Ⓒ
C5008	A-3	Ⓒ
C5009	A-4	Ⓒ
C5010	A-3	Ⓒ
C5011	A-3	Ⓒ
C5012	B-5	Ⓕ
C5013	B-6	Ⓕ
C5014	B-6	Ⓕ
C5016	B-6	Ⓕ
C5017	B-3	Ⓒ
C5018	B-5	Ⓕ
C5019	B-3	Ⓒ
C5020	B-4	Ⓒ
C5021	B-4	Ⓒ
C5022	A-4	Ⓒ
C5023	B-3	Ⓒ
C5041	B-6	Ⓕ
C5501	B-7	Ⓕ
C5502	A-8	Ⓕ
C5504	B-7	Ⓕ
C5505	B-7	Ⓕ
C5506	B-7	Ⓕ
C5507	C-3	Ⓒ
C5508	A-3	Ⓒ
C5509	A-7	Ⓕ
C5510	B-7	Ⓕ
C5511	B-2	Ⓒ
C5512	B-3	Ⓒ
C5513	B-7	Ⓕ
C5514	B-7	Ⓕ
C5515	B-7	Ⓕ
C5516	B-7	Ⓕ
C5517	B-7	Ⓕ
C5518	B-7	Ⓕ
C5519	B-7	Ⓕ
C5520	B-7	Ⓕ
C5521	C-5	Ⓕ
C5522	C-5	Ⓕ
C5523	A-8	Ⓕ
C5525	B-2	Ⓒ
C5526	B-2	Ⓒ
C5527	B-7	Ⓕ
C5530	B-8	Ⓕ
C5531	A-8	Ⓕ
C5534	B-7	Ⓕ
C6001	E-8	Ⓒ
C6002	E-1	Ⓕ
C6003	E-6	Ⓒ
C6004	E-7	Ⓒ
C6005	E-2	Ⓕ
C6006	D-3	Ⓕ
C6007	D-3	Ⓕ
C6008	C-2	Ⓕ
C6009	D-6	Ⓒ
C6010	C-8	Ⓒ
C6011	C-1	Ⓕ
C6012	D-3	Ⓕ
C6013	D-3	Ⓕ
C6014	E-1	Ⓕ
C6016	D-1	Ⓕ
C6018	D-8	Ⓒ
C6025	D-8	Ⓒ
C6027	C-7	Ⓒ
C6029	D-5	Ⓒ
C6030	E-8	Ⓒ
C6031	D-1	Ⓕ
C6032	D-3	Ⓕ
C6033	C-6	Ⓒ
C6034	C-6	Ⓒ
C6035	D-3	Ⓕ
C6039	D-7	Ⓒ
C6042	D-6	Ⓒ
C6049	E-7	Ⓒ
C6050	E-7	Ⓒ
C6051	E-7	Ⓒ
C6052	E-2	Ⓕ
C6060	D-7	Ⓒ
C6061	C-6	Ⓒ
C6201	D-3	Ⓕ
C6202	E-3	Ⓕ
C6203	E-7	Ⓒ
C6204	D-7	Ⓒ
C6205	E-2	Ⓕ
C6206	D-7	Ⓒ
C6207	E-1	Ⓕ
C6208	D-7	Ⓒ
C6209	E-6	Ⓒ
C6210	D-7	Ⓒ

Resistor

R201	E-6	Ⓕ
R203	E-3	Ⓒ
R204	E-4	Ⓒ
R205	E-4	Ⓒ
R208	E-6	Ⓕ
R209	F-5	Ⓕ
R210	F-5	Ⓕ
R211	E-5	Ⓕ
R212	F-6	Ⓕ
R214	E-4	Ⓒ
R219	E-4	Ⓒ
R220	F-6	Ⓕ
R221	F-4	Ⓒ
R225	E-3	Ⓒ
R226	F-4	Ⓒ
R227	E-6	Ⓕ
R228	F-4	Ⓒ
R302	B-7	Ⓕ
R303	D-5	Ⓕ
R304	D-5	Ⓕ
R305	E-6	Ⓕ
R306	E-4	Ⓒ
R307	D-4	Ⓒ
R308	E-3	Ⓒ
R309	D-4	Ⓒ
R310	E-7	Ⓕ
R311	E-6	Ⓕ
R312	D-5	Ⓒ
R313	D-5	Ⓒ
R314	D-4	Ⓒ
R315	D-4	Ⓕ
R316	D-4	Ⓕ
R317	D-4	Ⓒ
R318	D-5	Ⓕ
R319	D-4	Ⓕ
R320	E-4	Ⓕ
R321	E-4	Ⓕ
R322	E-4	Ⓒ
R323	D-4	Ⓕ
R324	D-4	Ⓒ
R325	C-5	Ⓕ
R326	C-5	Ⓕ
R327	E-3	Ⓒ
R328	E-3	Ⓒ
R329	E-6	Ⓕ
R330	C-4	Ⓒ
R331	D-4	Ⓕ
R332	D-4	Ⓕ
R333	A-5	Ⓒ
R334	D-5	Ⓕ
R335	E-4	Ⓒ
R336	E-6	Ⓕ
R337	E-4	Ⓒ
R338	E-4	Ⓒ
R339	D-4	Ⓒ
R340	D-4	Ⓒ
R341	D-5	Ⓕ
R342	D-4	Ⓒ
R343	D-4	Ⓒ
R344	D-5	Ⓕ
R402	D-4	Ⓒ
R701	D-2	Ⓒ
R702	D-1	Ⓒ
R703	E-7	Ⓕ
R704	D-8	Ⓕ
R705	D-7	Ⓕ
R706	D-7	Ⓕ
R707	D-3	Ⓒ
R709	D-7	Ⓕ
R710	E-7	Ⓕ
R711	D-3	Ⓒ
R713	D-4	Ⓒ
R714	D-3	Ⓒ
R716	E-1	Ⓒ
R717	E-1	Ⓒ
R718	E-2	Ⓒ
R719	C-3	Ⓒ
R720	D-3	Ⓒ
R721	C-3	Ⓒ
R722	E-7	Ⓕ
R723	E-7	Ⓕ
R724	D-7	Ⓕ
R725	D-2	Ⓒ
R726	D-2	Ⓒ
R727	D-7	Ⓕ
R728	D-7	Ⓕ
R729	D-7	Ⓕ
R730	E-7	Ⓕ
R731	E-7	Ⓕ
R732	E-7	Ⓕ
R733	D-3	Ⓒ
R734	D-3	Ⓒ
R735	D-7	Ⓕ
R736	D-7	Ⓕ
R737	D-3	Ⓒ
R738	D-3	Ⓒ
R740	D-3	Ⓒ
R741	D-7	Ⓕ
R742	D-7	Ⓕ
R743	E-7	Ⓕ
R745	E-2	Ⓕ
R757	F-7	Ⓕ
R758	E-7	Ⓕ
R761	E-7	Ⓕ
R1001	B-6	Ⓒ
R1002	B-3	Ⓕ
R1005	B-7	Ⓒ
R1006	B-7	Ⓒ
R1007	A-2	Ⓕ
R1008	A-3	Ⓕ
R1009	A-3	Ⓕ
R1012	A-3	Ⓕ
R1013	A-3	Ⓕ
R1014	B-7	Ⓒ
R1015	B-6	Ⓒ
R1016	B-6	Ⓒ
R1017	B-6	Ⓒ
R1018	B-6	Ⓒ
R1019	B-7	Ⓒ
R1020	B-6	Ⓒ
R1021	B-3	Ⓕ
R1022	B-2	Ⓕ
R1023	A-2	Ⓕ
R1024	B-7	Ⓒ
R1025	B-6	Ⓒ
R1035	B-2	Ⓕ
R1038	B-3	Ⓕ
R1039	B-7	Ⓒ
R1040	A-3	Ⓕ
R1051	B-2	Ⓕ
R1052	B-2	Ⓕ
R1057	A-3	Ⓕ
R1063	A-6	Ⓒ
R1065	B-1	Ⓕ
R1066	A-7	Ⓒ
R1067	A-6	Ⓒ
R1068	A-6	Ⓒ
R1069	A-6	Ⓒ
R1071	B-3	Ⓕ
R1072	B-3	Ⓕ
R1073	B-3	Ⓕ
R1085	B-3	Ⓕ
R1086	B-7	Ⓒ
R1601	B-8	Ⓒ
R1602	C-1	Ⓕ
R1603	C-1	Ⓕ
R1699	C-1	Ⓕ
R1726	E-5	Ⓒ
R1727	E-5	Ⓒ
R1805	B-6	Ⓕ
R1806	B-3	Ⓒ
R1807	A-3	Ⓕ
R1884	E-5	Ⓒ
R2001	E-7	Ⓕ
R2002	E-7	Ⓕ
R2003	E-8	Ⓕ
R2004	E-7	Ⓕ
R2005	E-7	Ⓕ
R2006	E-7	Ⓕ
R2007	E-8	Ⓕ
R2008	E-8	Ⓕ
R2009	E-8	Ⓕ
R2010	E-7	Ⓕ
R2012	F-7	Ⓕ
R2015	F-7	Ⓕ
R2016	F-7	Ⓕ
R2017	F-8	Ⓕ
R2018	F-7	Ⓕ
R2019	F-2	Ⓕ
R2020	F-7	Ⓕ
R2021	E-2	Ⓒ
R2022	F-1	Ⓒ
R2024	F-7	Ⓕ
R2040	F-8	Ⓕ
R2041	E-8	Ⓕ
R2042	E-8	Ⓕ
R3001	B-6	Ⓕ
R3002	A-8	Ⓕ
R3004	A-3	Ⓕ
R3005	A-7	Ⓕ
R3006	A-2	Ⓒ
R3007	A-2	Ⓒ
R3009	A-7	Ⓕ
R3010	A-2	Ⓒ
R3018	A-2	Ⓒ
R3020	B-3	Ⓒ
R3022	A-7	Ⓕ
R3023	A-7	Ⓕ
R3025	A-2	Ⓒ
R3026	B-3	Ⓒ
R3034	D-4	Ⓕ
R3057	B-4	Ⓕ
R3058	B-4	Ⓕ
R3059	B-4	Ⓕ
R3060	E-8	Ⓒ
R4001	C-1	Ⓒ
R4002	B-7	Ⓕ
R4004	B-7	Ⓕ
R4005	C-2	Ⓒ
R4006	C-1	Ⓒ
R4007	C-7	Ⓕ
R4008	C-2	Ⓒ
R4009	C-8	Ⓕ
R4010	C-2	Ⓒ
R4011	C-7	Ⓕ
R4012	C-8	Ⓕ
R4013	C-8	Ⓕ
R4014	C-8	Ⓕ
R4015	C-2	Ⓒ
R4016	C-2	Ⓒ
R4017	C-8	Ⓕ
R4018	D-8	Ⓒ
R4019	C-7	Ⓕ
R4020	C-7	Ⓕ
R4021	B-7	Ⓕ
R4022	B-7	Ⓕ
R4023	C-1	Ⓒ
R4024	B-7	Ⓕ
R4025	C-2	Ⓒ
R4026	C-2	Ⓒ
R4027	B-7	Ⓕ
R4028	C-7	Ⓕ
R4029	B-7	Ⓕ
R4030	C-8	Ⓕ
R4031	D-7	Ⓕ
R4032	B-8	Ⓕ
R4033	B-8	Ⓕ
R4034	C-7	Ⓕ
R4035	C-2	Ⓒ
R4036	C-7	Ⓕ
R4037	B-7	Ⓕ
R4038	C-8	Ⓕ
R4040	B-7	Ⓕ
R4041	B-7	Ⓕ
R4042	B-7	Ⓕ
R4048	C-7	Ⓕ
R4060	D-7	Ⓕ
R4801	C-1	Ⓒ
R4802	C-1	Ⓒ
R4803	B-1	Ⓒ
R4804	B-1	Ⓒ
R4805	C-1	Ⓒ
R4806	C-1	Ⓒ
R4807	C-8	Ⓕ
R4808	C-8	Ⓕ
R4809	C-8	Ⓕ
R4810	B-8	Ⓕ
R4811	C-8	Ⓕ
R4812	C-8	Ⓕ
R4824	B-8	Ⓕ
R5001	B-5	Ⓕ
R5002	A-4	Ⓒ
R5003	A-3	Ⓒ
R5004	B-6	Ⓕ
R5005	B-4	Ⓒ
R5007	A-4	Ⓒ
R5008	A-4	Ⓒ
R5009	B-6	Ⓕ
R5010	B-6	Ⓕ
R5500	C-7	Ⓕ
R5502	C-3	Ⓒ
R5503	C-5	Ⓕ
R5504	B-7	Ⓕ

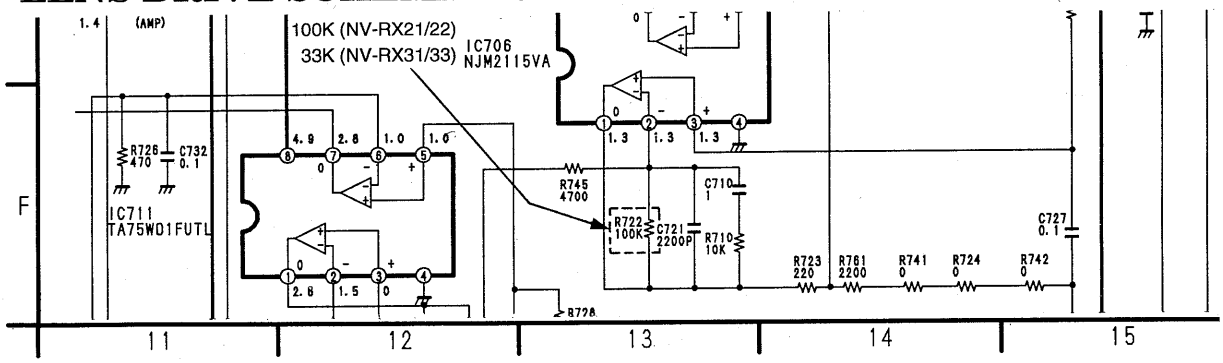
ADDRESS INFORMATION　　Ⓒ...COMPONENT SIDE　　Ⓕ...FOIL SIDE

CAM/MAIN C.B.A.

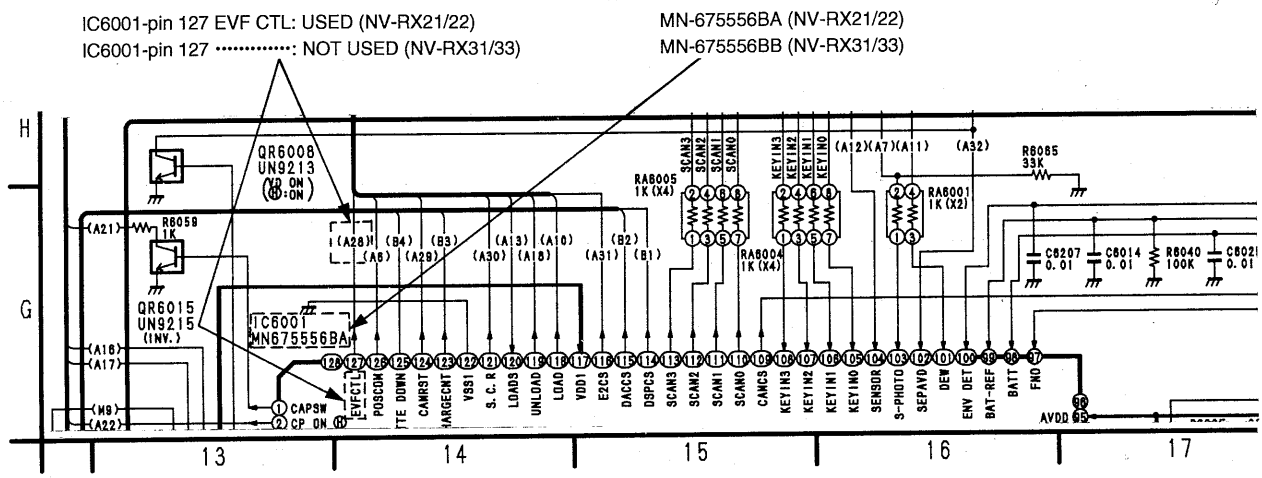
R5505	B-7 Ⓕ	R6205	E-2 Ⓕ						
R5508	B-3 Ⓒ	R6206	E-2 Ⓕ						
R5510	B-3 Ⓒ	R6207	E-2 Ⓕ						
R5513	B-7 Ⓕ	R6208	D-7 Ⓒ						
R5514	A-6 Ⓕ	R6209	D-7 Ⓒ						
R5515	A-8 Ⓕ	R6210	E-6 Ⓒ						
R5516	B-4 Ⓕ	R6211	D-7 Ⓒ						
R5517	C-4 Ⓕ	R6801	A-1 Ⓒ						
R5521	A-8 Ⓕ	R6802	C-8 Ⓕ						
R5522	C-5 Ⓕ	**Resistor Array**							
R5523	C-5 Ⓕ								
R5524	C-5 Ⓕ	RA201	F-4 Ⓒ						
R5526	C-5 Ⓕ	RA202	F-4 Ⓒ						
R5527	B-2 Ⓒ	RA703	D-3 Ⓒ						
R6001	E-3 Ⓕ	RA704	D-3 Ⓒ						
R6002	F-4 Ⓒ	RA6001	D-1 Ⓕ						
R6003	D-1 Ⓕ	RA6002	F-4 Ⓕ						
R6004	D-1 Ⓕ	RA6004	D-1 Ⓕ						
R6005	D-3 Ⓕ	RA6005	D-1 Ⓕ						
R6007	C-2 Ⓕ	RA6006	F-4 Ⓕ						
R6008	C-3 Ⓕ	RA6008	C-7 Ⓒ						
R6009	E-4 Ⓕ	RA6009	D-7 Ⓒ						
R6010	C-2 Ⓕ	RA6011	C-3 Ⓕ						
R6011	D-6 Ⓒ	RA6013	E-3 Ⓕ						
R6012	E-2 Ⓕ	RA6014	D-3 Ⓕ						
R6013	E-6 Ⓒ	RA6015	E-6 Ⓒ						
R6014	E-7 Ⓒ								
R6015	E-7 Ⓒ								
R6016	E-7 Ⓒ								
R6017	D-5 Ⓒ								
R6018	D-6 Ⓒ								
R6019	D-6 Ⓒ								
R6020	E-7 Ⓒ								
R6021	E-7 Ⓒ								
R6022	F-8 Ⓒ								
R6023	E-7 Ⓒ								
R6024	C-2 Ⓕ								
R6025	D-6 Ⓒ								
R6026	E-7 Ⓒ								
R6027	F-5 Ⓒ								
R6028	E-2 Ⓕ								
R6030	D-1 Ⓕ								
R6031	D-6 Ⓒ								
R6032	D-3 Ⓕ								
R6033	E-2 Ⓕ								
R6034	E-2 Ⓕ								
R6035	D-3 Ⓕ								
R6036	D-3 Ⓕ								
R6037	D-3 Ⓕ								
R6038	D-1 Ⓕ								
R6039	D-8 Ⓒ								
R6040	E-1 Ⓕ								
R6042	E-1 Ⓕ								
R6044	E-8 Ⓒ								
R6045	D-8 Ⓒ								
R6046	D-6 Ⓒ								
R6047	E-3 Ⓕ								
R6050	E-6 Ⓒ								
R6051	E-7 Ⓒ								
R6053	C-2 Ⓕ								
R6056	C-3 Ⓕ								
R6057	E-3 Ⓕ								
R6058	D-7 Ⓒ								
R6059	C-2 Ⓕ								
R6062	E-3 Ⓕ								
R6063	C-2 Ⓕ								
R6065	E-1 Ⓕ								
R6067	E-8 Ⓒ								
R6068	E-8 Ⓒ								
R6069	E-8 Ⓒ								
R6082	C-2 Ⓕ								
R6085	E-8 Ⓒ								
R6086	E-8 Ⓒ								
R6087	C-2 Ⓕ								
R6089	D-6 Ⓒ								
R6095	E-2 Ⓕ								
R6097	C-6 Ⓒ								
R6098	C-6 Ⓒ								
R6099	D-4 Ⓕ								
R6100	E-4 Ⓕ								
R6202	D-8 Ⓒ								
R6204	E-2 Ⓕ								

ADDRESS INFORMATION Ⓒ...COMPONENT SIDE Ⓕ...FOIL SIDE

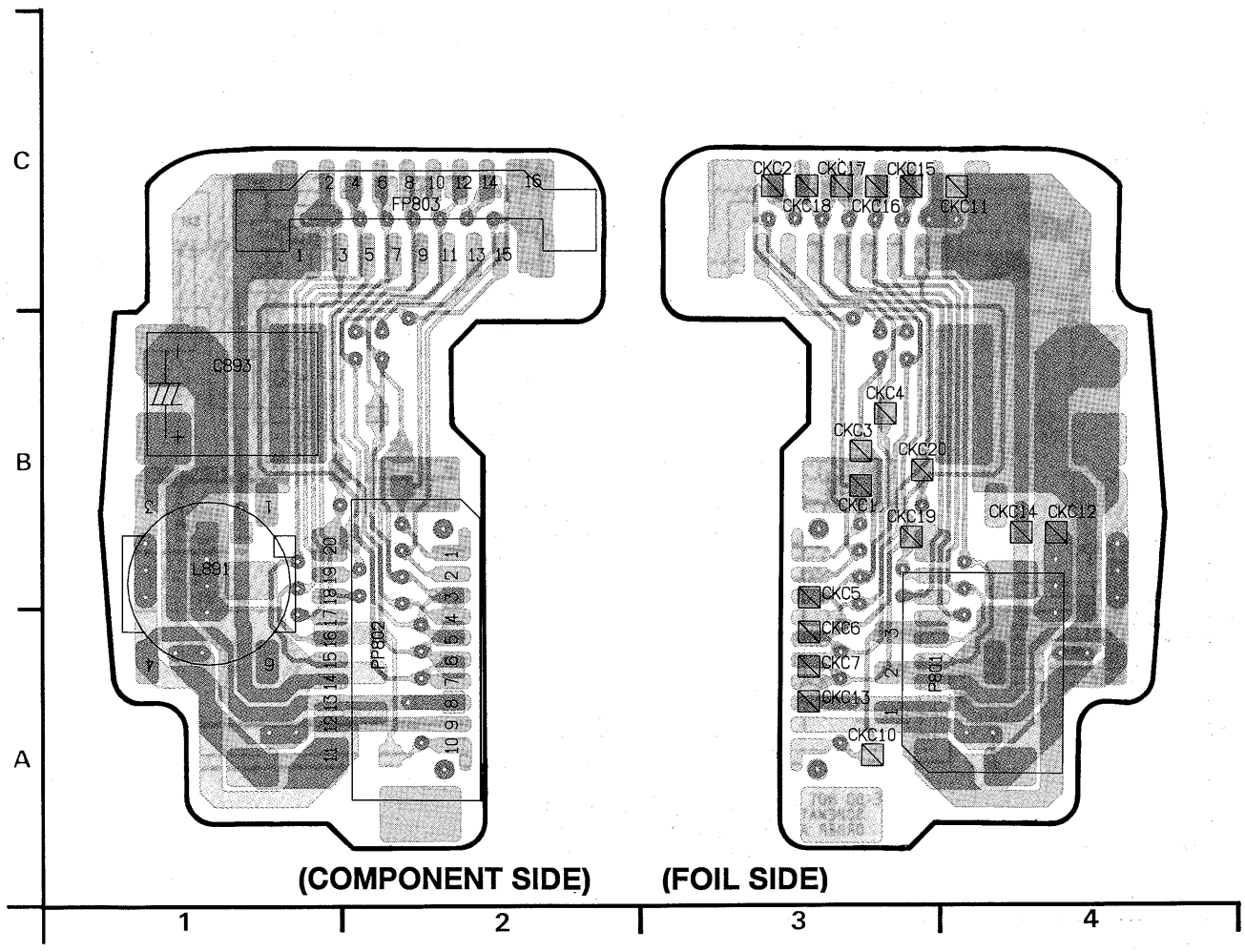
9. LENS DRIVE SCHEMATIC DIAGRAM



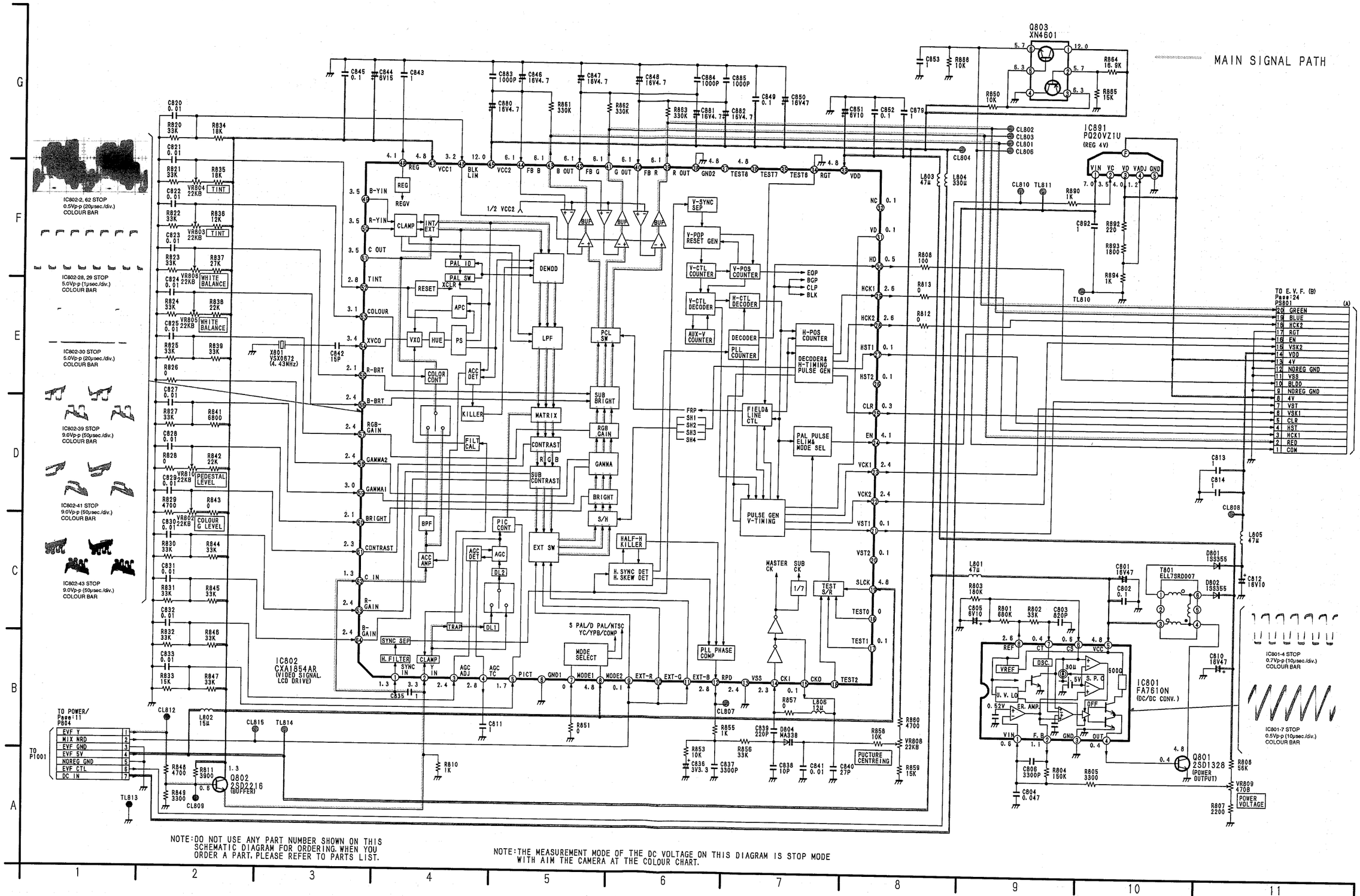
10. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM



11. E.V.F. (B) C.B.A. (VEP28250A)



12. E.V.F. (A) SCHEMATIC DIAGRAM

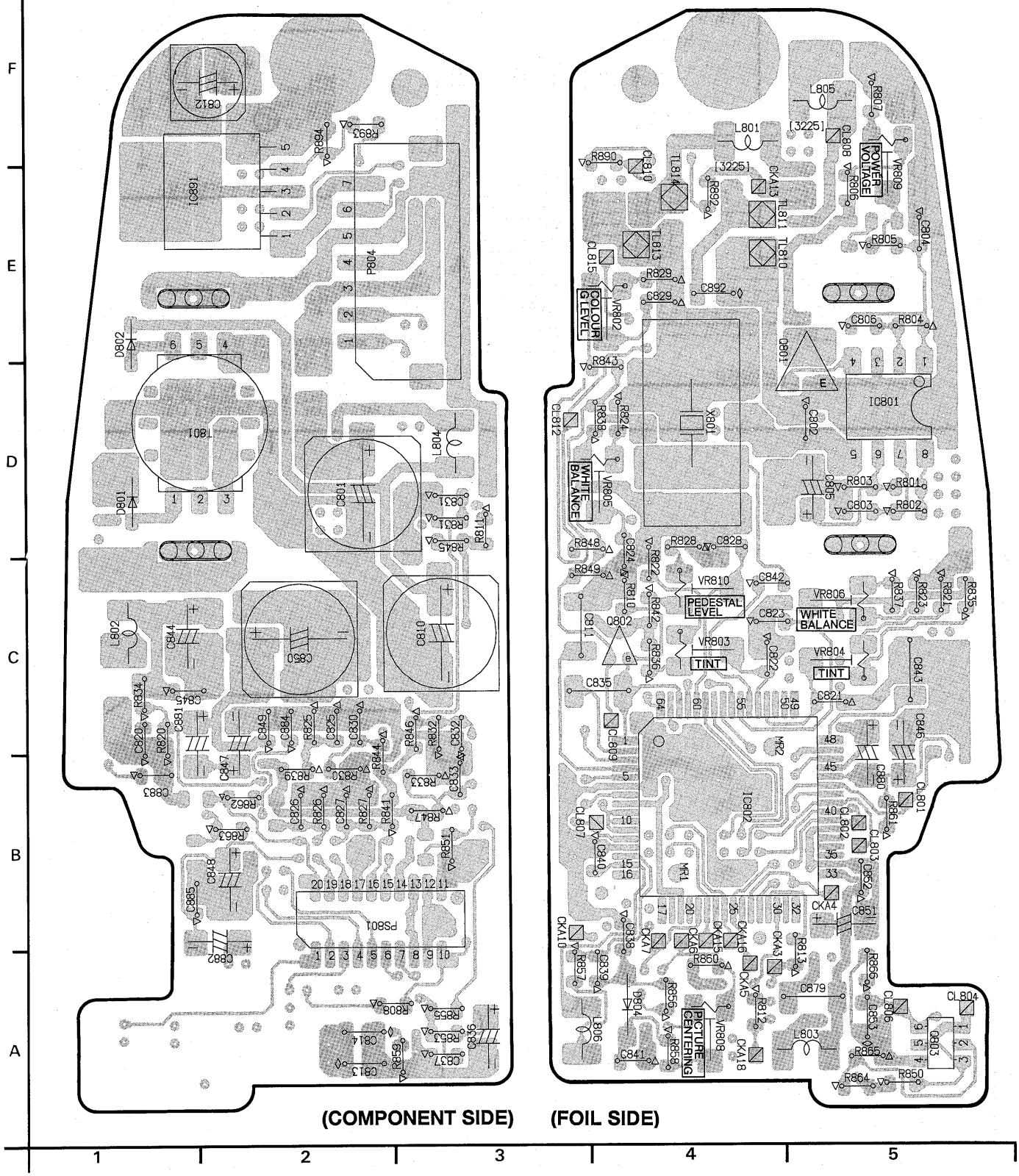


Back Page:
SYSTEM CTL & EVF Section

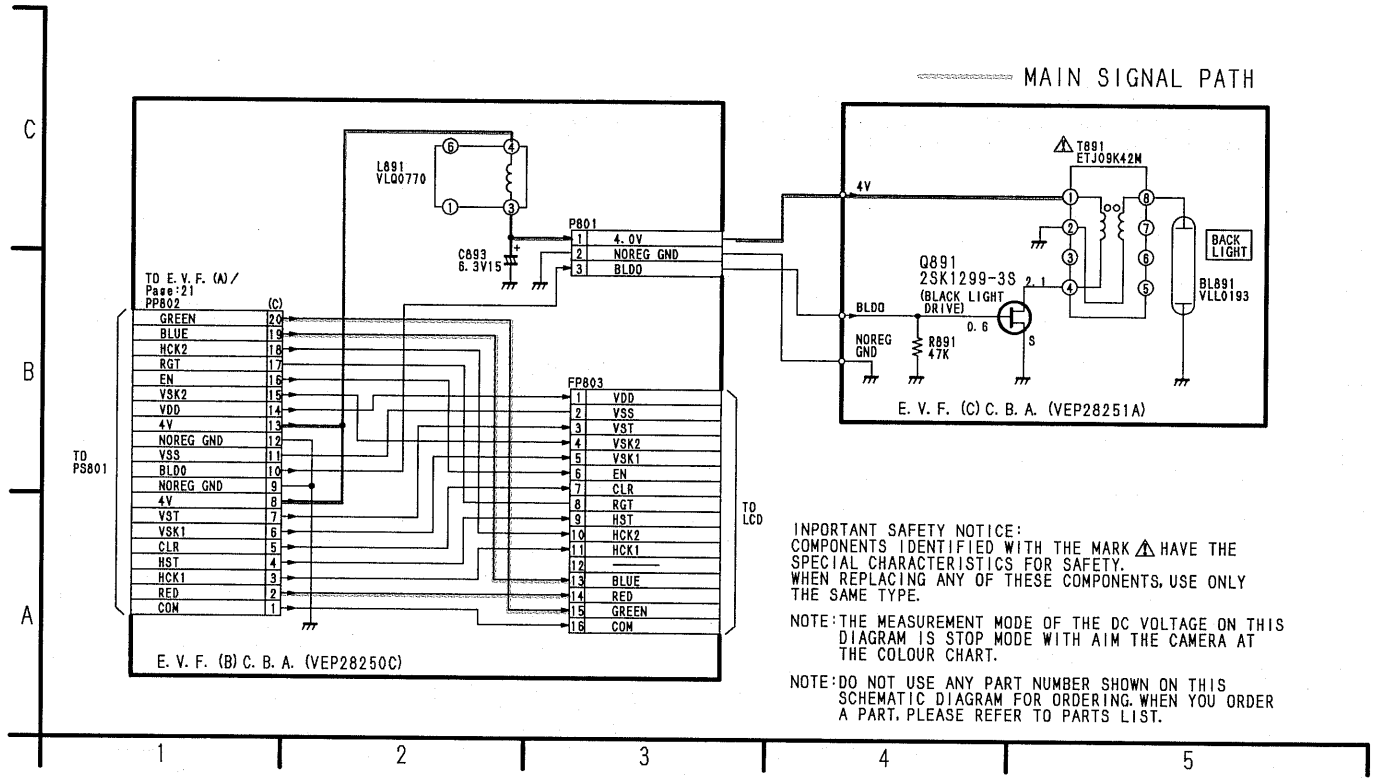
13. E.V.F. (A) C.B.A. (VEP28249A)

NOTE: MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



14. E.V.F. (B)/(C) SCHEMATIC DIAGRAM

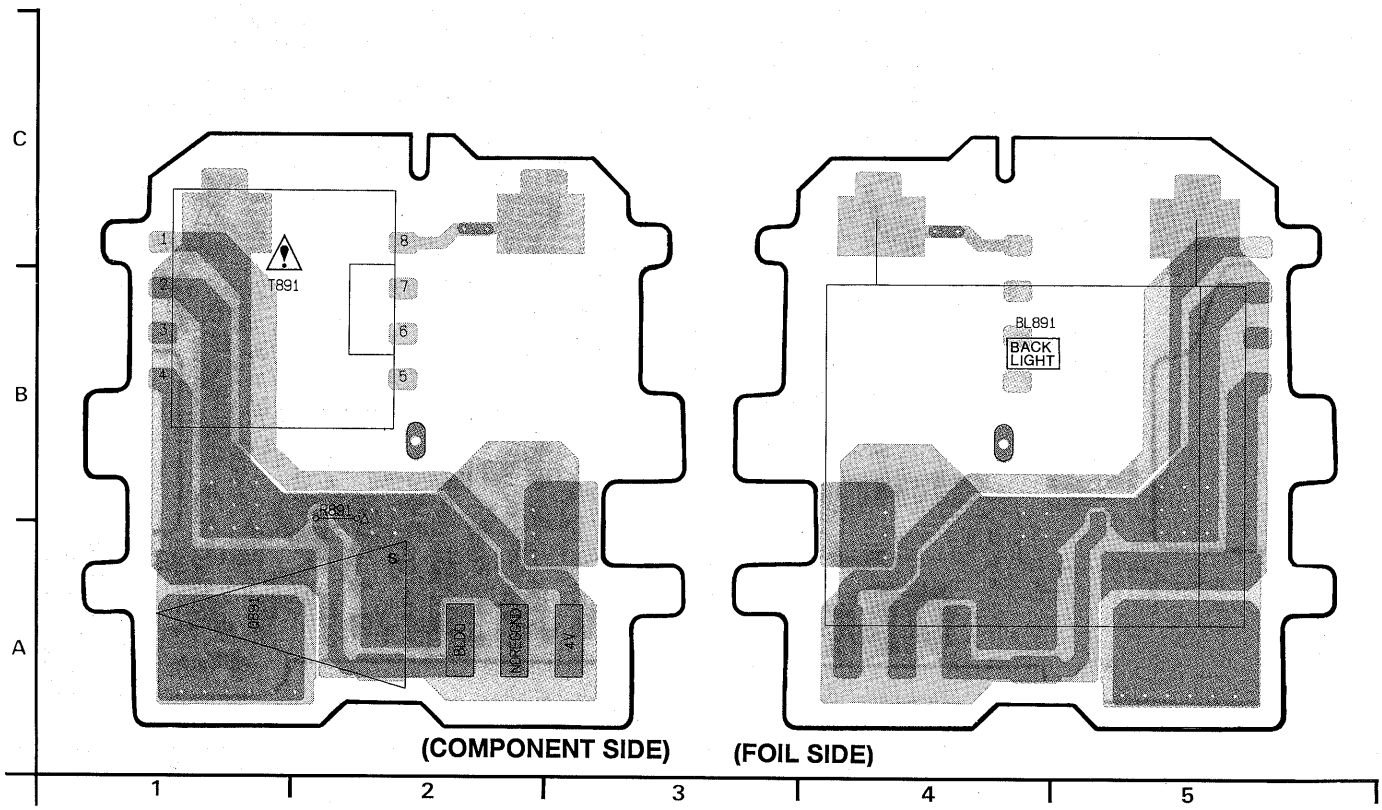


INPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE COLOUR CHART.

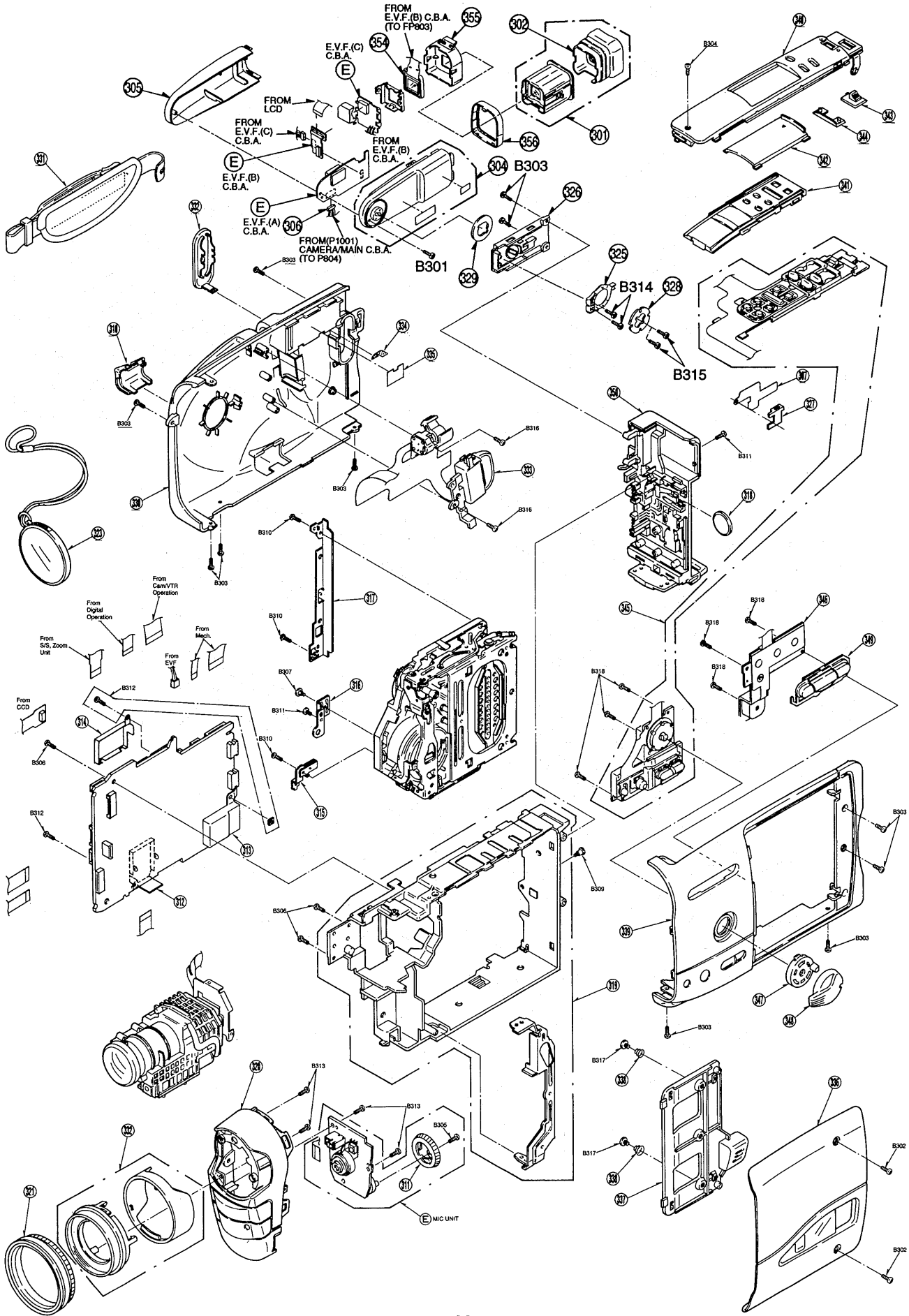
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

15. E.V.F. (C) C.B.A. (VEP28251A)

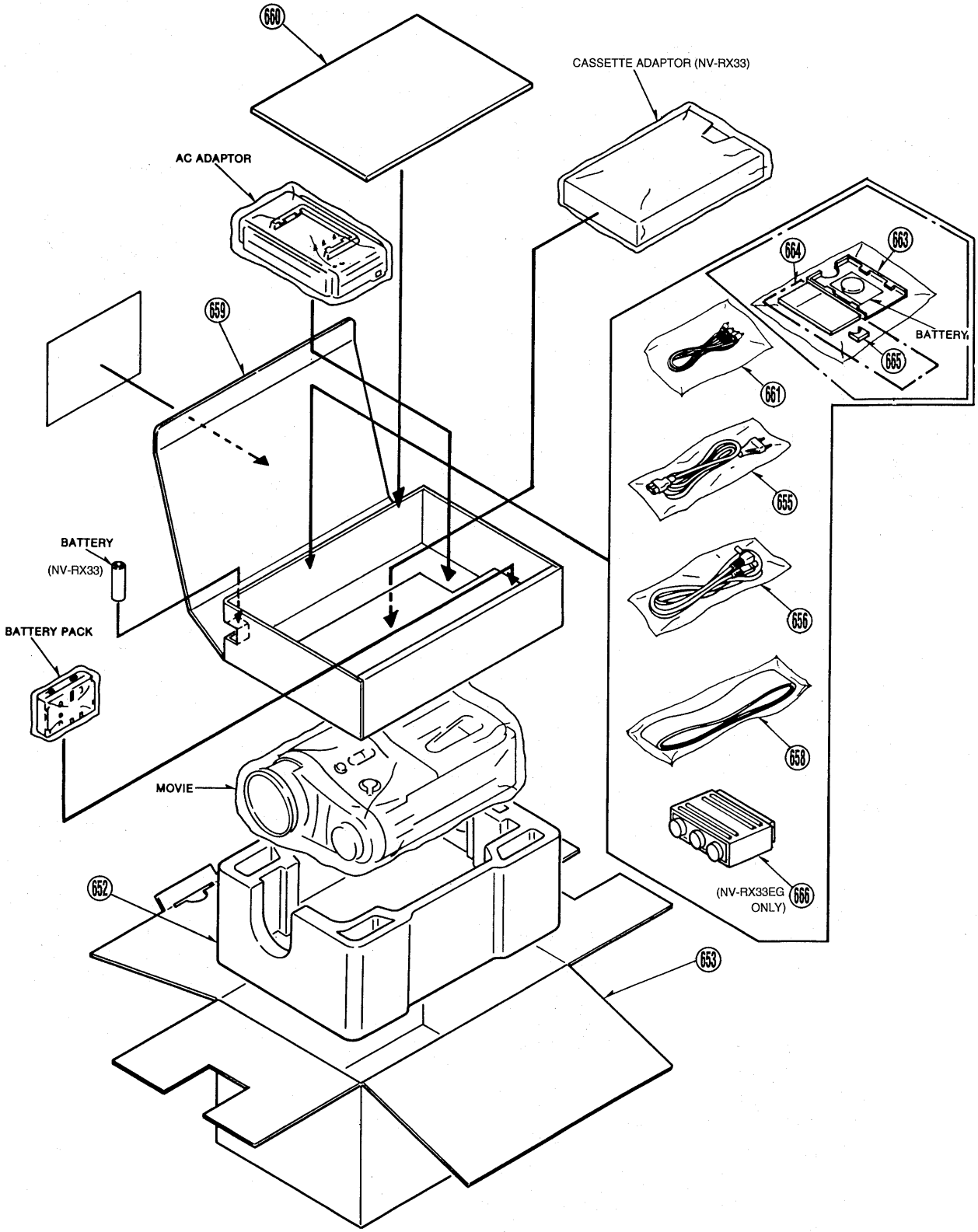


16. EXPLODED VIEWS

❺ FRAME & CASING PARTS SECTION



❻ PACKING PARTS & ACCESSORIES SECTION



17. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP23449F	CAMERA/MAIN C.B.A.	1	(RTL)
■	VEP28249A	E.V.F. (A) C.B.A.	1	(RTL)
■	VEP28250A	E.V.F. (B) C.B.A.	1	(RTL)
■	VEP28251A	E.V.F. (C) C.B.A.	1	(RTL)
■	VEP23449F	CAMERA/MAIN C.B.A.		(RTL)
C201, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C203	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C205	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C207, 08	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	2	
C211	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C212, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C215	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C216	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C218	ECEV1AA101U	E. CAPACITOR CH 10V 100U	1	
C219	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C228	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C231	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C232	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C301	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C302	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C304, 05	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	2	
C307	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C308	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C309	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C310	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C311	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C312	ECUX1H080CCV	C. CAPACITOR CH 50V 8P	1	
C313	ECUM1C683KBV	C. CAPACITOR CH 16V 0.068U	1	
C315	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C316, 17	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	2	
C318	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U	1	
C319	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C321	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C322, 23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C324	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C325	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C326	ECUX1A105ZFV	C. CAPACITOR CH 10V 1U	1	
C327-31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C332	ECUM1C683KBV	C. CAPACITOR CH 16V 0.068U	1	
C333	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C334	ECUX1H080CCV	C. CAPACITOR CH 50V 8P	1	
C335	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C337, 38	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C340, 41	ECUM1C683KBV	C. CAPACITOR CH 16V 0.068U	2	
C701	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C702	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C703	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C704	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C705	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C706, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C708	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C709	ECEV1AA101U	E. CAPACITOR CH 10V 100U	1	
C710	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C711	ECEV1CA470P	E. CAPACITOR CH 16V 47U	1	
C712	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C713	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C714	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C715	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C716	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C717	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C718	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C719	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C720	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C721	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C724	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C725, 26	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
C727	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C731	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C732	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C1001	ECUM1A225KBM	C. CAPACITOR CH 10V 2.2U	1	
C1003	ECUM1A335KBM	C. CAPACITOR CH 10V 3.3U	1	
C1004	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C1005	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1008	ECUM1A335KBM	C. CAPACITOR CH 10V 3.3U	1	
C1009	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1010	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1012	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C1014	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C1017	ECUM1E105KBM	C. CAPACITOR CH 25V 1U	1	
C1019, 20	ECUM1E334KBM	C. CAPACITOR CH 25V 0.33U	2	
C1022	ECUM1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C1026	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C1027	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C1028	ECEV1HAR47	E. CAPACITOR CH 50V 0.47U	1	
C1030	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C1032	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
C1033-35	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3	
C1036	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C1037	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C1041	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1046	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1051	ECUM1C334KBN	C. CAPACITOR CH 16V 0.33U	1	
C1055	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1057	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1064	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1066	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C1071	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1	
C1073	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1080, 81	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	2	
C1603	ECEV1CA220P	E. CAPACITOR CH 16V 22U	1	
C2001, 02	ECST1CY105Z	T. CAPACITOR CH 16V 1U	2	
C2003	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C2004	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2005	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C2007	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1	
C2009	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C2010	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C2011	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C2012, 13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C2014	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C2015-17	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C2018	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C2020-22	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C2023	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C2025-27	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	3	
C2028	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C2029	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C2033	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C2040-42	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	3	
C2043	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C2070	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3001	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3004	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3005	ECEV0SA470	E. CAPACITOR CH 4V 47U	1	
C3006	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3007	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3008	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3009	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3016	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3017	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3018	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3019,20	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C3022	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3023	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3024	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3026	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3027	ECEV1AAN100	E. CAPACITOR CH 10V 10U	1	
C3028	ECEV0GA471	E. CAPACITOR CH 4V 470U	1	
C3029	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C3030	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3031	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3033	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3035	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4001	ECYX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C4002	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4003	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1	
C4004	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4008	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C4009	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4011	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C4012	ECST0JX226Z	T. CAPACITOR CH 6.3V 22U	1	
C4014	ECUX1E223KBV	C. CAPACITOR CH 25V 0.022U	1	
C4015	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C4016	ECUM2A472JCM	C. CAPACITOR CH 100V 4700P	1	
C4017	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4019,20	ECUX1C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C4021,22	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C4023	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C4024	ECST1CY475Z	T. CAPACITOR CH 16V 4.7U	1	
C4025	ECST0JY685Z	T. CAAPCITOR CH 6.3V 6.8U	1	
C4026	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C4027	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U	1	
C4028	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C4029	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	
C4030	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C4031	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C4032	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C4034	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C4035	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C4036	ECST0JY335Z	T. CAPACITOR CH 6.3V 3.3U	1	
C4037	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4038	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4801	ECUX1G823KBV	C. CAPACITOR CH 16V 0.082U	1	
C4802	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C4803	ECUM1E273KBV	C. CAPACITOR CH 25V 0.027U	1	
C4804	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C4805,06	ECUM1E273KBV	C. CAPACITOR CH 25V 0.027U	2	
C4807	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C4808	ECUX1H123KBV	C. CAPACITOR CH 50V 0.012U	1	
C5001-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C5005-08	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	4	
C5009,10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5011	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5012,13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5014	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5016	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5017	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5018	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5019	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5020,21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5022	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5023	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5041	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C5501,02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C5504	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5505,06	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C5507	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C5508	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5509	ECST0JY106Z	T. CAPACITOR CH 6.3V 10U	1	
C5510	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C5511	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5512	ECEV05A470	E. CAPACITOR CH 4V 47U	1	
C5513	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	
C5514	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5515	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C5516	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C5517	ECUX1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C5518	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5519	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5520	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C5521	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5522	ECUX1H090CCV	C. CAPACITOR CH 50V 9P	1	
C5523	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C5525	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5526	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	1	
C5527	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C5530	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C5531	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C5534	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6002	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C6003-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C6006,07	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C6008	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C6009-11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C6012,13	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	2	
C6014	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6016	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6018	ECEV1CA470P	E. CAPACITOR CH 16V 47U	1	
C6025	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6027	ECEV0GA101	E. CAPACITOR CH 4V 100U	1	
C6029	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6030	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C6031	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6032	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C6033,34	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C6035	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C6039	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6042	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6049,50	ECEV1CA100	E. CAPACITOR CH 16V 10U	2	
C6051	ECUX1E223KBV	C. CAPACITOR CH 25V 0.022U	1	
C6052	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C6060	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6061	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6201	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C6202	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C6203	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	
C6204	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
C6205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6206	ECEV0GA101	E. CAPACITOR CH 4V 100U	1	
C6207	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C6208	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C6209	ECEV0JA220	E. CAPACITOR CH 6.3V 22U	1	
C6210	ECUM1A105KBN	C. CAPACITOR CH 10V 1U	1	
D204	1SS355	DIODE	1	
D303,04	MA728	DIODE	2	
D1002	EC20QS06	DIODE	1	
D1006,07	MA111	DIODE	2	
D1009	MA8180-M	DIODE	1	
D1015	EC15QS04	DIODE	1	
D1020	1SS355	DIODE	1	
D1601	MA8130M	DIODE	1	
D1603	MA8130M	DIODE	1	
D3001	MA133	DIODE	1	
D3004	MA111	DIODE	1	
D6001	MA111	DIODE	1	
D6002-04	MA132WA	DIODE	3	
D6005	MA111	DIODE	1	
D6006	MA728	DIODE	1	
D6008	MA111	DIODE	1	
D6009	MA133	DIODE	1	
D6010	MA111	DIODE	1	
D6011	MA133	DIODE	1	
D6012	MA132WA	DIODE	1	
D6013	MA133	DIODE	1	
D6016	MA133	DIODE	1	
D6201	MA111	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FP701	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
FP2001	VJS3911A007	CONNECTOR (FEMALE) 7P	1	
FP2002	VJS2959D018	CONNECTOR (FEMALE) 18P	1	
FP4001	VJS2958D009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3654B012	CONNECTOR (FEMALE) 12P	1	
FP5001	VJS2959B013	CONNECTOR (FEMALE) 13P	1	
FP6001	VJS2959D018	CONNECTOR (FEMALE) 18P	1	
FP6002	VJS2959B006	CONNECTOR (FEMALE) 6P	1	
FP6003	VJS3319B010	CONNECTOR (FEMALE) 10P	1	
FP6004	VJS3654B008	CONNECTOR (FEMALE) 8P	1	
FP6006	VJS3320B026	CONNECTOR (FEMALE) 26P	1	
IC202	MN31121SA	IC	1	
IC203	M52948FP	IC	1	
IC301	F712510APBW	IC	1	
IC302	M62366GP	IC	1	
IC303	XC62FP3302MR	IC	1	
IC304	UPD6461GS661	IC	1	
IC306	TC7W04F	IC	1	
IC701, 02	TB6526F	IC	2	
IC703	TA75S393F	IC	1	
IC706	NJM2115VA	IC	1	
IC710	MN1882421CA3	IC	1	
IC711	TA75W01FU	IC	1	
IC1001	BA9706K	IC	1	
IC2001	TB6518F	IC	1	
IC2002, 03	UN224	TRANSISTOR-RESISTOR	2	
IC3001	HA118603F	IC	1	
IC5001	AN3355FHP	IC	1	
IC5501	MSM7470-73MS	IC	1	
IC6001	MN675556BB	IC	1	
IC6002	MM1355AFFE	IC	1	
IC6003	TA75W393FU	IC	1	
IC6004	AK6480AF	IC	1	
IC6005	BA6289F	IC	1	
IC6006	TA75W393FU	IC	1	
IC6011	UPD7564G557	IC	1	
L201	VLQ0426J470	COIL 47UH	1	
L205	VLQ0319K470	COIL 47UH	1	
L301	VLQ0426J2R2	COIL 2.2UH	1	
L302	VLQ0426J220	COIL 22UH	1	
L303	VLQ0426J6R8	COIL 6.8UH	1	
L306	VLQ0319K100	COIL 10UH	1	
L307	VLQ0426J220	COIL 22UH	1	
L703, 04	VLQ0319K100	COIL 10UH	2	
L1001	VLQ0833M4R7	COIL 4.7UH	1	
L1002	VLQ0833M220	COIL 22UH	1	
L1003	VLQ0834M4R7	COIL 4.7UH	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0833M101	COIL 100UH	1	
L1008	VLQ0834M4R7	COIL 4.7UH	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1014	VLQ0319K100	COIL 10UH	1	
L1015	VLQ0319K470	COIL 47UH	1	
L1062	VLQ0833M330	COIL 33UH	1	
L3002	VLQ0319K100	COIL 10UH	1	
L3003	VLQ0163J820	COIL 82UH	1	
L4005	VLQ0319K101	COIL 100UH	1	
L5001-04	VLQ0319K470	COIL 47UH	4	
L5501	VLQ0319K100	COIL 10UH	1	
L5502	VLQ0163J100	COIL 10UH	1	
L5503	ELJFG120ZB	CHIP INDUCTOR	1	
L5504	VLQ0163J390	COIL 39UH	1	
L5506	VLQ0319K470	COIL 47UH	1	
L5507	VLQ0163J121	COIL 120UH	1	
LB201, 02	VLP0153	COIL	2	
LB302-04	VLP0175	COIL	3	
LB1601, 02	VLP0307	COIL	2	
P1001	VJP3172D007	CONNECTOR (MALE) 7P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PP201	VJP3358C012	CONNECTOR (MALE) 12P	1	
PP3001	VJP3359D040	CONNECTOR (MALE) 40P	1	
PS1003	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
PS3009	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
Q301	XP4401	TRANSISTOR	1	
Q302	XP4601	TRANSISTOR	1	
Q303	2SD2216	TRANSISTOR	1	
Q701-03	IMT17T110	TRANSISTOR	3	
Q704	2SD601A	TRANSISTOR	1	
Q705	2SD1030	TRANSISTOR	1	
Q706	IMT17T110	TRANSISTOR	1	
Q1001	2SA1731-R	TRANSISTOR	1	
Q1003	MPL1	TRANSISTOR	1	
Q1004	2SD2210	TRANSISTOR	1	
Q1010	2SB1462-R	TRANSISTOR	1	
Q1062	MPL1	TRANSISTOR	1	
Q3001	XP4501	TRANSISTOR-TRANSISTOR	1	
Q3002	XP4401	TRANSISTOR	1	
Q3010	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4001	XP6401	TRANSISTOR	1	
Q4002	2SD602-R	TRANSISTOR	1	
Q4003	2SB1219	TRANSISTOR	1	
Q4004	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4006	2SB1462-R	TRANSISTOR	1	
Q4007	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4009	2SD2216	TRANSISTOR	1	
Q4014	XP4601	TRANSISTOR	1	
Q4801	2SD2216	TRANSISTOR	1	
Q4802	XP4501	TRANSISTOR-TRANSISTOR	1	
Q5001, 02	XN4504	TRANSISTOR	2	
Q5003	2SA812	TRANSISTOR	1	
Q5501	2SD2216	TRANSISTOR	1	
Q5502	2SB1462-R	TRANSISTOR	1	
Q5503	2SD2216	TRANSISTOR	1	
Q6002	2SD2216	TRANSISTOR	1	
Q6005	XP1501	TRANSISTOR-RESISTOR	1	
Q6006	2SB1462-R	TRANSISTOR	1	
Q6007	2SD2216	TRANSISTOR	1	
Q6201	2SB1462-R	TRANSISTOR	1	
QR201	XP1212	TRANSISTOR-RESISTOR	1	
QR701	MRN1102	TRANSISTOR-RESISTOR	1	
QR1001	MRN2102	TRANSISTOR-RESISTOR	1	
QR1005	UN9217	TRANSISTOR-RESISTOR	1	
QR1061	MRN2111	TRANSISTOR-RESISTOR	1	
QR2002	MRN1111	TRANSISTOR-RESISTOR	1	
QR3001	MRN1104	TRANSISTOR-RESISTOR	1	
QR4003	MRN2103	TRANSISTOR-RESISTOR	1	
QR4004	XP1215	TRANSISTOR-RESISTOR	1	
QR4005	MRN1104	TRANSISTOR-RESISTOR	1	
QR4008	MRN1104	TRANSISTOR-RESISTOR	1	
QR5502	MRN1103	TRANSISTOR-RESISTOR	1	
QR5504	MRN1104	TRANSISTOR-RESISTOR	1	
QR5505	XP1213	TRANSISTOR-RESISTOR	1	
QR6001	MRN2111	TRANSISTOR-RESISTOR	1	
QR6002	UN9210	TRANSISTOR-RESISTOR	1	
QR6003	MRN2103	TRANSISTOR-RESISTOR	1	
QR6004	XP4115	TRANSISTOR-RESISTOR	1	
QR6007	MRN1102	TRANSISTOR-RESISTOR	1	
QR6008	MRN1104	TRANSISTOR-RESISTOR	1	
QR6012	MRN1104	TRANSISTOR-RESISTOR	1	
QR6014	UN9210	TRANSISTOR-RESISTOR	1	
QR6015	MRN1111	TRANSISTOR-RESISTOR	1	
QR6050	XP1213	TRANSISTOR-RESISTOR	1	
R201	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R204, 05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R208	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R209-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R212	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R214	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R220	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R221	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R225	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R226	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R227, 28	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R302	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R303, 04	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R305	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R306	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R307	ERJ3RBD513	M. RESISTOR CH 1/16W 51K	1	
R308	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R309	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R310, 11	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R312	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R313	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R314	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R315	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R317	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R318, 19	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R320	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R321	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R322	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R323	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R324	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R325	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R326	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R327	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R328	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R329	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R331	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R332	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R333	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R334	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R335, 36	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R337, 38	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R339, 40	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R341	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R342, 43	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R344	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R402	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R701-04	ERJ3GEYJ3R3	M. RESISTOR CH 1/16W 3.3	4	
R705, 06	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R707	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R709	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R710	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R711	ERJ3GEYJ335	M. RESISTOR CH 1/16W 3.3M	1	
R713	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R714	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R716	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R717	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R718	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R719	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R720	ERJ3GEYG113	M. RESISTOR CH 1/16W 11K	1	
R721	ERJ3GEYG183	M. RESISTOR CH 1/16W 18K	1	
R722	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R723	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R724, 25	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R726	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R727	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R728	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
R729	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R730	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R731	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R732	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R733	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R734, 35	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R736, 37	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	2	
R738	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R740	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R741, 42	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R743	ERJ3RBD622	M. RESISTOR CH 1/16W 6.2K	1	
R745	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R757, 58	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R761	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R1001	ERJ6RBD822	M. RESISTOR CH 1/10W 8.2K	1	
R1002	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1	
R1005	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1	
R1006	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1	
R1007	ERJ8GEYJ330	M. RESISTOR CH 1/8W 33	1	
R1008	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R1009	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R1012	ERJ6RHD1872	M. RESISTOR CH 1/10W 18.7K	1	
R1013	ERJ6RBD473	M. RESISTOR CH 1/10W 47K	1	
R1014, 15	ERJ6RBB182	M. RESISTOR CH 1/10W 1.8K	2	
R1016	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R1017	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1018	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R1019	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1020	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R1021	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1022	ERJ3GEYJ150	M. RESISTOR CH 1/16W 15	1	
R1023	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1024	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1025	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R1035	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1038	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1039	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R1040	ERJ3RBD111	M. RESISTOR CH 1/16W 110	1	
R1051	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R1052	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R1057	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1063	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1065	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1066	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1068	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1071	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1072	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1073	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1085, 86	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
⚠ R1601	VSF0226D25T	FUSE	1	
R1602	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R1603	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R1699	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R1726	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1727	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R1805-07	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R1884	ERJ8GEY0R00	M. RESISTOR CH 1/8W 0	1	
R2001	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R2002	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R2003	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R2004	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
R2005	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R2006	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R2007	ERJ8GEYJR47	M. RESISTOR CH 1/8W 0.47	1	
R2008	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1	
R2009	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R2010	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2012	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R2015	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R2016	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R2017	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R2018	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R2019, 20	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R2021	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R2022	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1	
R2024	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R2040-42	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	3	
R3001	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3002	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3004	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R3005	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3006	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3007	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R3009	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3010	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3018	ERJ3GEYJ225	M. RESISTOR CH 1/16W 2.2M	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3020	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R3022	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3023	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R3025	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R3026	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3034	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3057	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3058	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3059	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R3060	ERJ3RED620	M. RESISTOR CH 1/16W 62	1	
R4001	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R4002	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4004	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4005	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R4006	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4007	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4008	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4009	ERJ3GEYJ225	M. RESISTOR CH 1/16W 2.2M	1	
R4010	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R4011	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4012	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4013	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R4014	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R4015, 16	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4017	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4018	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R4019	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R4020	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R4021	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R4022	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4023	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R4024	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4025	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4026	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R4027, 28	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R4029	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R4030	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R4031	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R4032	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R4033	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4034	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4035	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R4036	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4037	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R4038	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R4040	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4041	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R4042	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R4048	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4060	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R4801	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R4802	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4803	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R4804	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R4805	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1	
R4806	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R4807	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R4808, 09	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	2	
R4810	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R4811	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R4812	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4824	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5001	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R5002, 03	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R5004	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5005	ERJ3GEYG113	M. RESISTOR CH 1/16W 11K	1	
R5007	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R5008	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7	1	
R5009	ERJ3GEYJ274	M. RESISTOR CH 1/16W 270K	1	
R5010	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5500	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5502	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R5503	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5504	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5505	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5508	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5510	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5513	ERJ3GEYJ225	M. RESISTOR CH 1/16W 2.2M	1	
R5514	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R5515	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R5516	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R5517	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R5521	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R5522	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R5523	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R5524	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R5526, 27	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R6001	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R6002	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R6003, 04	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	2	
R6005	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R6007	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6008	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R6009	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R6010	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6011	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6012	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R6013	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6014	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R6015	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6016	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R6017	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R6018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6019	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R6020	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6021	ERJ8GEYJ120	M. RESISTOR CH 1/8W 12	1	
R6022	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R6023	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6024	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6025	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R6026	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6027	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R6028	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6030	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6031, 32	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R6033	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R6034	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6035	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6036	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6037	ERJ3RBD363	M. RESISTOR CH 1/16W 36K	1	
R6038	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6039	ERJ8GEYJ2R2	M. RESISTOR CH 1/8W 2.2	1	
R6040	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R6042	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R6044	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R6045	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R6046	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R6047	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6050, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R6053	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6056	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R6057, 58	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R6059	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R6062, 63	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R6065	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R6067	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R6068	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R6069	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R6082	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6085	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6086	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6087	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R6089	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R6095	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R6097	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R6098, 99	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R6100	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6202	ERJ8GEYJ2R2	M. RESISTOR CH 1/8W 2.2	1	
R6204	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R6205	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6206-08	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
R6209	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6210	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R6211	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6801	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
R6802	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
RA201	EXBV4V104J	RESISTOR-RESISTOR	1	
RA202	EXBV8V104J	RESISTOR-RESISTOR	1	
RA703,04	EXBV4V473J	RESISTOR-RESISTOR	2	
RA6001	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6002	EXBV8V683J	RESISTOR-RESISTOR	1	
RA6004,05	EXBV8V102J	RESISTOR-RESISTOR	2	
RA6006	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6008	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6009	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6011	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6013	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6014,15	EXBV8V683J	RESISTOR-RESISTOR	2	
T1001	ELL04T075R	TRANSFORMER	1	
T1002	VTP0357	TRANSFORMER	1	
T4001	EIQ60B008	TRANSFORMER	1	
X301	VSX0916	CRYSTAL OSCILLATOR	1	
X701	VSX0946	CERAMIC OSCILLATOR	1	
X5501	VSX0933	CRYSTAL OSCILLATOR	1	
X6001	VSX0917	CRYSTAL OSCILLATOR	1	
X6002	VSX0601	CRYSTAL OSCILLATOR	1	
X6003	VSX0678	CERAMIC OSCILLATOR	1	
■	VEP28249A	E.V.F.(A) C.B.A.		(RTL)
C801	ECEV1CA470FP	E.CAPACITOR CH 16V 47U	1	
C802	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C803	ECYX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C804	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C805	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C806	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C810	ECEV1CA470FP	E.CAPACITOR CH 16V 47U	1	
C811	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C812	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C813,14	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C820-25	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	6	
C827-33	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	7	
C835	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C836	ECST0JY335Z	T.CAPACITOR CH 6.3V 3.3U	1	
C837	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C838	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C839	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C840	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C841	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C842	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C843	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C844	ECST0JX156Z	T.CAPACITOR CH 6.3V 15U	1	
C845	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C846-48	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	3	
C849	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C850	ECEV1CA470FP	E.CAPACITOR CH 16V 47U	1	
C851	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C852	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C853	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C879	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C880-82	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	3	
C883-85	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	3	
C892	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
D801,02	1SS355	DIODE	2	
D804	MA338	DIODE	1	
IC801	FA7610N	IC	1	
IC802	CXA1854AR	IC	1	
IC891	PQ20VZ1U	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L801	VLQ0319K470	COIL 47UH	1	
L802	VLQ0319F150	COIL 15UH	1	
L803	VLQ0163J470	COIL 47UH	1	
L804	VLQ0319K331	COIL 330UH	1	
L805	VLQ0163J470	COIL 47UH	1	
L806	VLQ0163J120	COIL 12UH	1	
P804	VJP3172D007	CONNECTOR (MALE) 7P	1	
PS801	VJS2961C020	CONNECTOR (FEMALE) 20P	1	
Q801	2SD1328-S	TRANSISTOR	1	
Q802	2SD2216	TRANSISTOR	1	
Q803	XN4601	TRANSISTOR-TRANSISTOR	1	
R801	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R802	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R803	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R804	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R805	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R806	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R807	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R808	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R810	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R811	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R812,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R820-25	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	6	
R826	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R827	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R828	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R829	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R830-32	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
R833	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R834,35	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R836	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R837	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R838	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R839	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R841	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R842	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R843	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R844-47	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R848	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R849	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R850	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R851	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R853	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R855	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R856	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R857	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R858	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R859	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R860	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R861-63	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	3	
R864	ERJ3RHD1692	M.RESISTOR CH 1/16W 16.9K	1	
R865	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R866	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R890	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R892	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R893	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R894	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
T801	ELL7SRD007	CHOKE COIL	1	
VR802-06	VRV0292B223	VARIABLE RESISTOR	5	
VR808	VRV0292B223	VARIABLE RESISTOR	1	
VR809	VRV0292B471	VARIABLE RESISTOR	1	
VR810	VRV0292B223	VARIABLE RESISTOR	1	
X801	VSX0672	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC4457	EVF SHIELD COVER (TOP)	1	
	VSC4458	EVF SHIELD COVER (BOTTOM)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP28250A	E.V.F. (B) C.B.A.		(RTL)
C893	VCEZ0JAU156Z	E.CAPACITOR	1	
FP803	VJS4020A016	CONNECTOR (FEMALE) 16P	1	
L891	VLQ0770	COIL	1	
P801	VJP3172D003	CONNECTOR (MALE) 3P	1	
PP802	VJP3126D020	CONNECTOR (MALE) 20P	1	
■	VEP28251A	E.V.F. (C) C.B.A.		(RTL)
BL891	VLL0193	FLUORESCENT LAMP	1	
Q891	2SK1299-3S	TRANSISTOR	1	
R891	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
T891	ETJ09K42AM	TRANSFORMER	1	
		MISCELLANEOUS		
	VEE0C83	WIRE CABLE	1	
	VSC4736	EVF SHIELD COVER	1	
	VGQ4177	BACK LIGHT HOLDER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Memo

INTERNAL REFERENCE CODES	
NOTE: This chart is only for internal reference. Do not order any parts according to these codes.	
P.C.B.	FILM CODE
CAMERA/MAIN	HOKU00-23449
E.V.F. (A)	HOKU00-28249
E.V.F. (B)	HOKU00-28250
E.V.F. (C)	HOKU00-28251

Panasonic

MATSUSHITA ELECTRIC

Printed in Japan

ORDER NO. VMD9806035C8

Service Manual

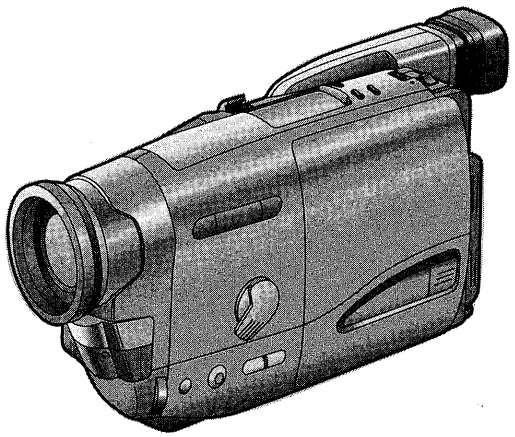
Simplified

Panasonic VHS C PAL

HQ

VHS-C Movie

NV-RX31B
NV-RX33EG/A/EN



DL-MECHANISM

SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: Battery Pack; 4.8 V DC AC Adaptor; 6.0 V DC Consumption; 5.1 W (Battery operation)	VIDEO	HEADS: 4 rotary heads, 1 flying erase head
			OUTPUT: PHONO CONNECTOR; 1.0 Vp-p 75Ω unbalanced
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL	AUDIO	HEAD: 1 Stationary head (Normal-Mono)
			OUTPUT: PHONO CONNECTOR; −6 dB, 47 kΩ loaded/less than 1 kΩ
TAPE FORMAT	VHS-C Cassette Tape (Tape width 12.7 mm)	OPERATING TEMPERATURE	0~40℃
TAPE SPEED	SP mode: 23.39 mm/s LP mode: 11.7 mm/s (Except NV-RX33EG) Record/Playback Time: SP mode: 1 hour with EC60 LP mode: 2 hours with EC60 (Except NV-RX33EG)	OPERATING HUMIDITY	10~80%
		WEIGHT	Approx. 715 g (without Battery Pack)
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)	DIMENSIONS	91 (W)×124 (H)×269 (D) mm
	STANDARD ILLUMINATION: 1,400 lux	STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor 1 pc. Shoulder Strap 1 pc. DC Input Cable 1 pc. Battery for Cassette Adaptor Operation 1 pc. AC Cable 1 pc. AV Output Cable 1 pc. 21 pin Adaptor (for NV-RX33EG) 1 pc. Remote Controller
	MINIMUM REQUIRED ILLUMINATION: 0.5 Lux (Low Light Mode)		
	LENS: 21 : 1 Wide-angle Power Zoom Lens with Digital AI Auto Focus, Auto Iris, Auto Focus System, F1.6 (3.8~79.8 mm), Filter Diameter 43 mm		
	IMAGE SENSOR: 1/4 inch CCD Image Sensor		
	FINDER: 0.5-inch Colour LCD Finder		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION 1

This service manual contains technical information which will allow service personnel's to understand and service the VHS-C Movie model NV-RX31/33 series.
This Service manual is based on NV-RX21/22 series.
So,please refer to the descriptions which are shown in
NV-RX21/22 series Service Manual Order No. **:VMD9801001C8**

Note 1 :Adjustment procedure for Mechanism-Chassis is separate volume.
Please refer to following manual for detail of adjustment procedure for Mechanism-Chassis.
Order number for adjustment procedure of Mechanism-Chassis : VMD9412M130

Note 2 : Thses movie camera uses AC Adaptor VSK0317D
The Service manual for AC Adaptor is separate volume.
Order number for AC Adaptor----VSK0317D :VMD9412M130

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1. COMPARISON CHART

1.Comparison Chart for NV-RX21/22 & NV-RX31/33

This Chart described different part from the original model to new model as shown below.

Original Model : NV-RX21/22
New Model : NV-RX31/33

Note: IMPORTANT NOTICE
Components identified with <!> have special characterristics for safty.
When replacing any these components, use only the same parts.

Comparison Chart for NV-RX21/RX22 & NV-RX33

Comparison chart of of mechanical replacement Parts. <A>...Added, <C>...Changed, <D>...Deleted.

Ref.No.	Parts No.for NV-RX21/22	Parts No.for NV-RX31/33	Pcs/ Set	Parts name & description	Remaks
41 (5)		VEG1175	1	CYLINDER U	NV-RX33EN/A,RX31B
41 (5)		VEG1174	1	CYLINDER U	EXCEPT NV-RX33EG
301 (5)	VYK8075	VYQ1559	1	EYE CAP HOLDER U	<C>
302 (5)	VMG0631	VMG1146	1	EYE CAP	<C>
304 (5)	VYK8074	VYK8429	1	EVF CASE (R) U	<C>
305 (5)	VKM4836	VKM4972	1	EVF CASE (L) U	<C>
306 (5)	VEE0C47	VEE0C46	1	CONNECTOR U	<C>
307 (5)	VMZ2792	VMZ2825	1	EVF ROTARY SEC BARRIER	<C>
326 (5)	VGQ4749	VGQ4893	1	EVF FIXING PIECE	<C>
332 (5)	VKF2828	VKF2930	1	AV JACK COVER	<C>
329 (5)	VMX2713	VMX2790	1	SPACER SHEET	<C>
336 (5)	VYK8240	VYK8454	1	CASSETTE COVER (1) U	NV-RX31 <C>
336 (5)	VYK8240	VYK8454	1	CASSETTE COVER (1) U	NV-RX33 <C>
350 (5)	VEK8379	VEK8380	1	REAR CASE U	<C>
354 (5)	————	LCX005BKB	0-1	LCD U	<A>
355 (5)	————	VJF1276	0-1	LCD HOLDER PIECE	<A>
356 (6)	————	VGQ4909	0-1	CASE HOLDER	<A>
652 (6)	VPN4801	VPN4870	1	CUSHION	<C>
653 (6)	————	VPG9455	0-1	PACKNG	NV-RX33EG <A>
		VPG9456	0-1	PACKNG	NV-RX31B <A>
		VPG9457	0-1	PACKNG	NV-RX33EN <A>
		VPG9458	0-1	PACKNG	NV-RX33A
<!> 655 (5)	————	VJA1039	0-1	AC CORD	NV-RX33EG/EI <C>
<!> 656 (6)	————	VJA0754	0-1	AC CORD	NV-RX33A <C>
	————	VJA0940	0-1	AC CORD	NV-RX31B
659 (5)	VPN4805	VPN4858	1	ACCESSORIES BOX	<C>
<!> 660 (5)	————	VQT7528	0-1	OPERATION INSTRUCTIONS (ENGLISH)	NV-RX31B <A>
<!> 660 (5)		VQT7526	0-1	OPERATION INSTRUCTIONS (GERMAN/ENGLISH/FREANCH SPANISH)	NV-RX33EG <A>
<!> 660 (5)		VQT7527	0-1	OPERATION INSTRUCTIONS (ITALIAN/DUTCH/SWEDISH DANISH)	NV-RX33EG <A>
<!> 660 (5)		VQT7527	0-1	OPERATION INSTRUCTIONS (ENGLISH/CHINESE/ARABIC RUSSIAN)	NV-RX33EN <A>
<!> 660 (5)		VQT7525	0-1	OPERATION INSTRUCTIONS (ENGLISH)	NV-RX33A <A>

Comparison chart of Electrical replacement Parts. <A>...Added, <C>...Changed, <D>...Deleted.

Ref.No.	Parts No.for NV-RX21/22	Parts No.for NV-RX31/33	Pcs/ Set	Parts name & description	Remaks
	VEP23449B	VEP23449F	1	CAMERA/MAIN C.B.A	<C>
	————	VEP28249A	0-1	E.V.F.(A) C.B.A	<A>
	————	VEP28250A	0-1	E.V.F.(B) C.B.A	<A>
	————	VEP28251A	0-1	E.V.F.(C) C.B.A	<A>
	VEP28253A	————	1-0	E.V.F C.B.A	<D>

2. The Built-in Lithium Battery

Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. This has occurred if the [⌧] Indication in the Finder flashes when you turn on the Movie Camera. In this case, perform the following operations.

■ Charging the Built-in Lithium Battery and Other Required Operations

1 Connect the AC Adaptor to the mains and to the Movie Camera.

2 Leave the Movie Camera turned off.

- Although charging the lithium battery is possible with the Movie Camera turned on or off, we recommend to keep it turned off to conserve energy.

3 Leave the Movie Camera in this condition for approximately 4 hours.

- Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 1 month, charging for 26 hours (full charge) maintains it for approximately 1 year.

4 Set the clock to the current date and time.

3. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1.Remove the Rear Case Unit.
(Remove the 1 Screw from Rear Frame)

2.Remove the Lithium battery "ML2020" and then replace the new one. (See Fig.B1)

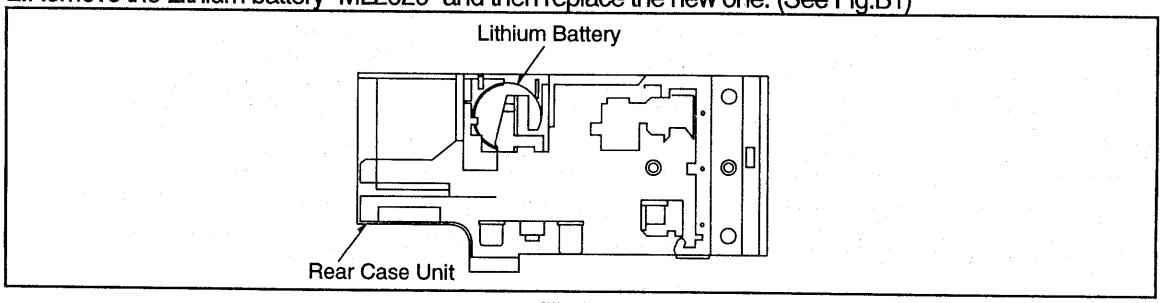


Fig.B1

NOTE:

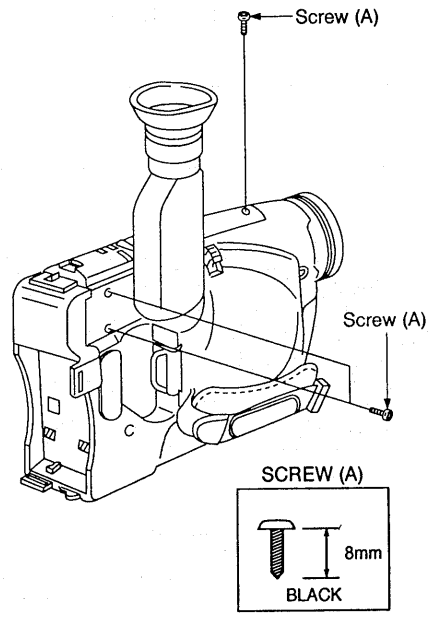
The lithium battery is a critical component(Type No.: ML2020 Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

4. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	ITEM / PART	FIG.	REMOVAL (SCREW)
1	Side Case (L) Unit	Fig. 1	3-SCREW (A)
		Fig. 2	5-SCREW (B)
		Fig. 3	2-LOCKING TAB (a) Slightly open the Side Case (L) Unit. Disconnect P1001 and FP6004.
2	EVF Unit	Fig. 4	4-LOCKING TAB (b)
3	Cassette Cover	Fig. 5	2-SCREW (C)
4	Side Case (R) Unit with Top Operation Panel	Fig. 6	1-SCREW (D)
		Fig. 2	2-SCREW (E)
		Fig. 6	4-LOCKING TAB (c) Slightly open the Side Case (R) Unit with Top Operation Panel. Disconnect FP6003 and FP6006.
5	Front Case Unit	Fig. 6	3-LOCKING TAB (d) Disconnect P4103.
6	Rear Case Unit	Fig. 7	1-SCREW (F) Disconnect PS1003,PS3009 and FP6005. 1-LOCKING TAB (e)
7	Main C.B.A.	Fig. 7	1-SCREW (G) 1-SCREW (H) Remove the Shield Case for the Head AMP. Disconnect the following connectors; FP5001, FP6001, FP6002, PP201, FP4001, FP2001, FP2002, FP701.
8	Lens Unit	Fig. 8	2-SCREW (I)
9	Mechanism Unit	Fig. 8	1-SCREW (J) 1-SCREW (K)
10	EVF C.B.A.	Fig. 9	Push the locking portion then pull the eye cap holder.
			Push the locking portion then pull the case holder.
		Fig. 10	1-SCREW (L)
			1-SCREW (M)
		Fig. 11	1-SCREW (N)
		Fig. 12	Disconnect the following connectors; FP803, P801, PP802, P804

(1)



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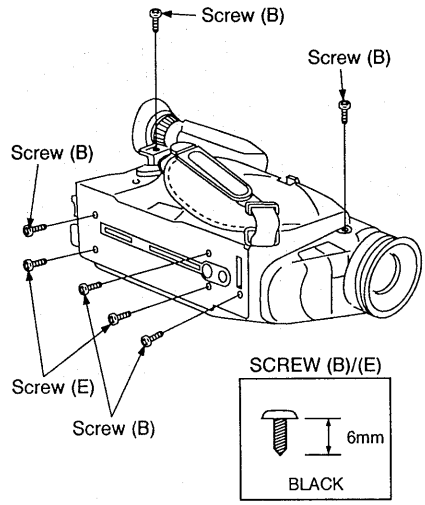

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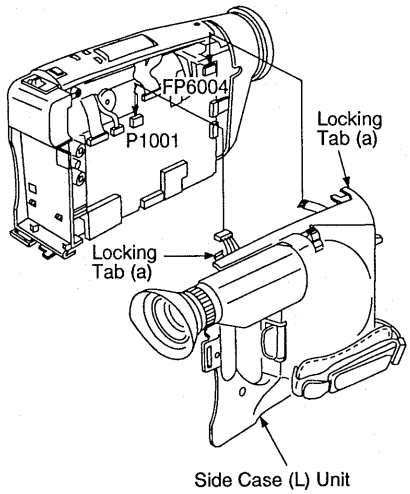

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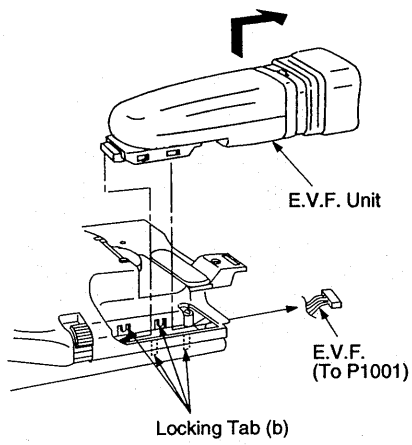

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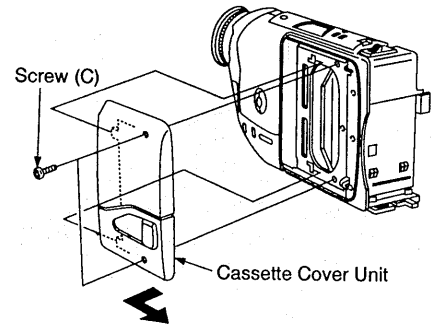

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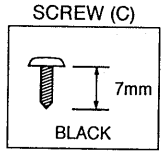

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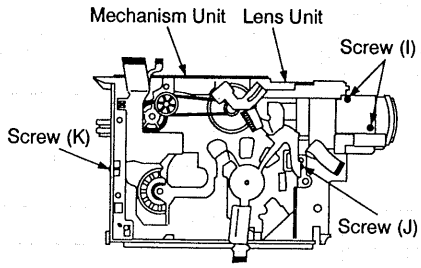

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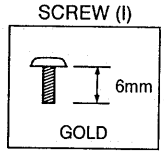

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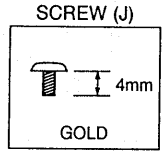

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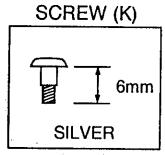

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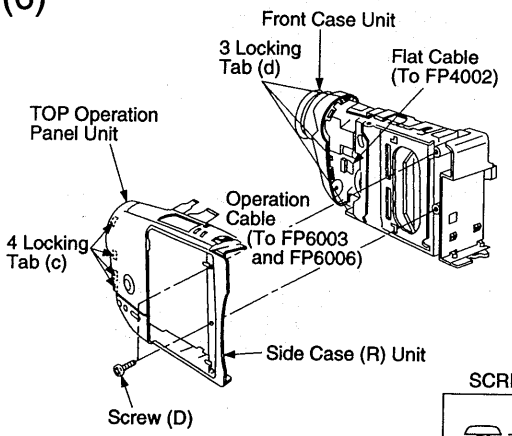

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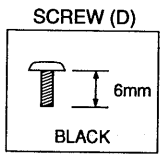

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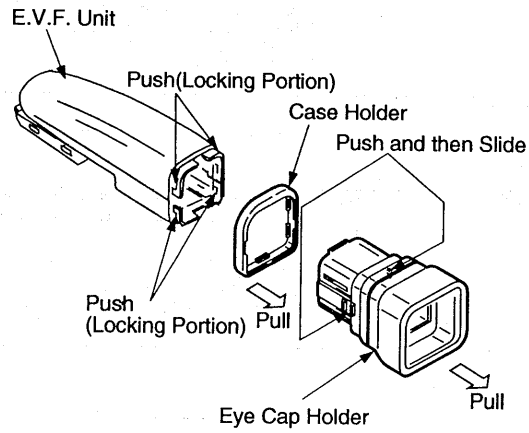

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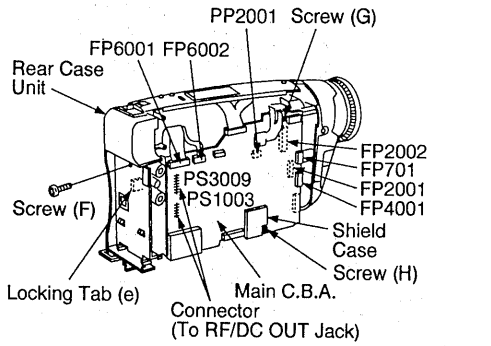

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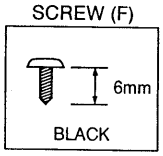

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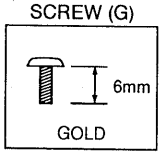

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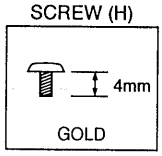

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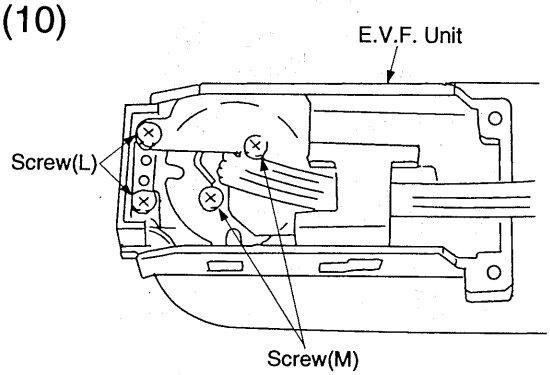

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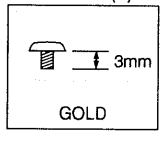

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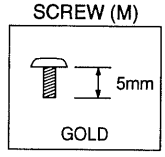

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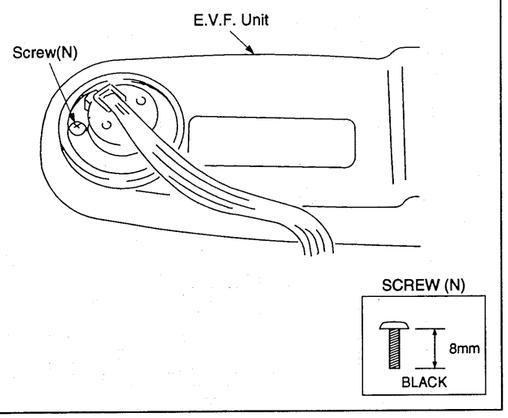

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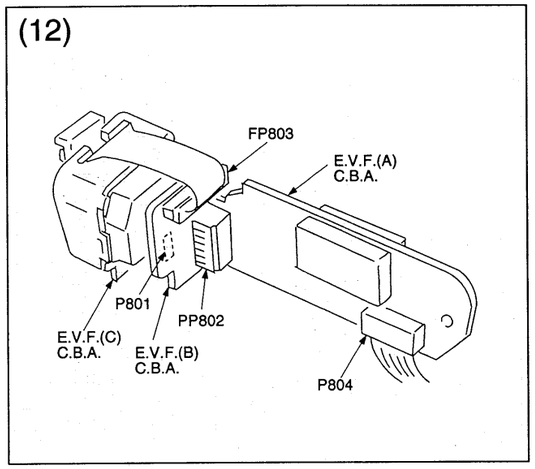


5. ELECTRICAL ADJUSTMENT PROCEDURE FOR E.V.F. SECTION FOR NV-RX31/RX33 SERIES

The following Equipment are required for adjustment of the Electric Viewfinder.

1. Test chart: Gray Scale chart/Color Bar Chart.
2. Tools : Plastic Tip driver

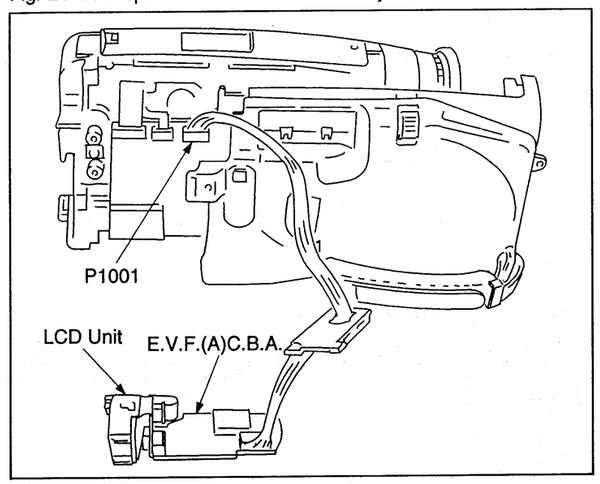
The following adjustment are Electric Viewfinder.

Preparation:	(A). Remove the Casing panels(Please refer to Fig.E1) (B). The camera unit must be completely aligned before viewfinder adjustment. (C). Please set the Color VR,Brightness VR to Center position. (D).Please turn off the demo mode for digital function, procedure for turn off the demo mode is as follows. Turn the Power sw within push the Stop key on Operation Panel. (If turn on the Power Sw within push the Play key,unit goes to Demo mode on)

ADJUSTMENT FOR MONITOR SECTION

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.POWER VOLTAGE	1. Connect the Digital Volt meter to CL804.	————	CL804	1.Turn VR809 so that the voltage at CL804 become 11.98±0.05V
2.PICTURE CENTERING	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL807.	Gray Scale Chart	CL807	1.Turn VR808 so that T1 = T2±0.1usec. (Please refer to Fig.E2)
3.PEDESTAL LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR810 so that "A" level become 2.3±0.1V. (Please refer to Fig.E3)
4.COLOR G LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR802 so that "A" level become 2.0±0.1V. (Please refer to Fig.E4)
5.TINT	1.Aim the Camera at Color Bar Chart. 2. Connect the oscilloscope to CL801.	Color Bar Chart	CL801	Adjust the VR803/VR804 so that the level of cyan,Green,Blue becomes equal. (Please refer to Fig.E5)
6.WHITE BALANCE	1.Aim the Camera at Color Bar Chart.	Color Bar Chart	E.V.F	Adjust the VR805/VR806 so that the white balance on the EVF screen become best position.

Fig. E1-1 : Preparation of Colour E.V.F. Adjustment



Note : Trigger for the Oscilloscope
To Trigger the Oscilloscope, following test point is used.

H rate : Video Output
V rate : PP3001-32(Head Amp Switching Pulse)

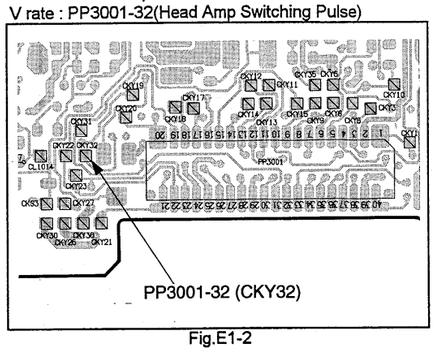


Fig.E1-2

PICTURE CENTERING

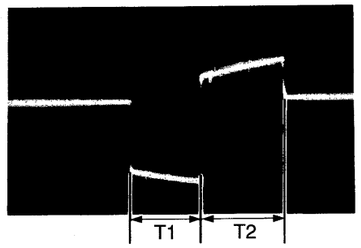


Fig. E2

PEDESTAL LEVEL

Fig. E3

COLOUR G LEVEL

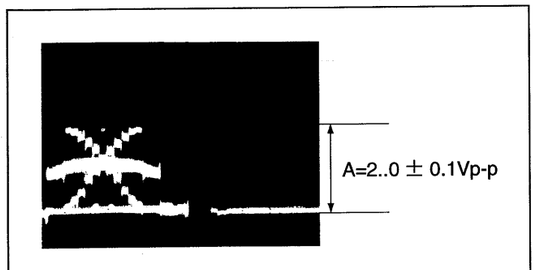


Fig. E4

TINT

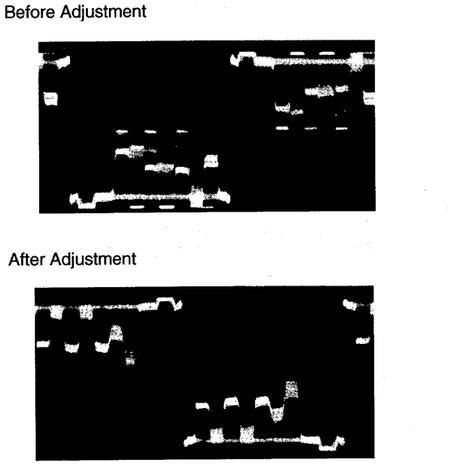
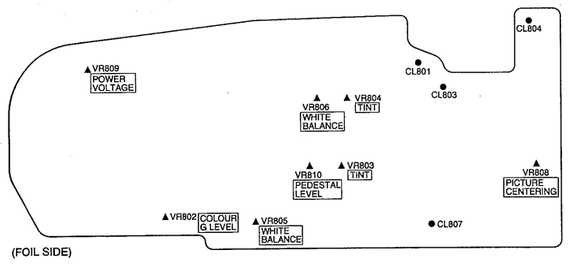


Fig. E5

LOCATION OF TEST POINTS & CTLS
<E.V.F. (A) C.B.A.>



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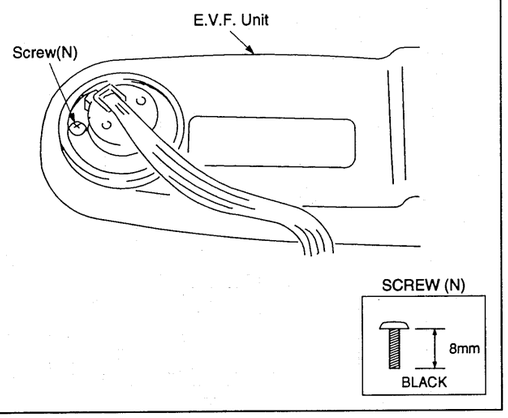

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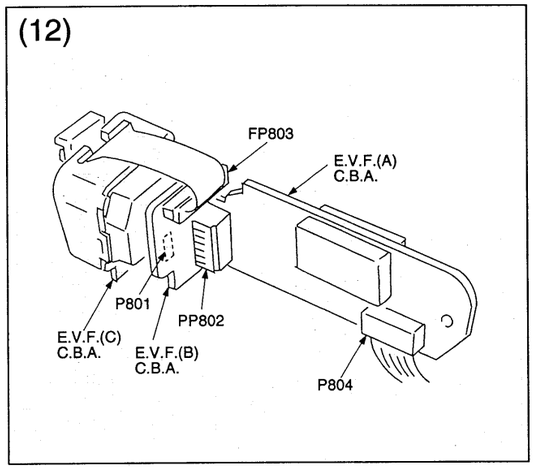


5. ELECTRICAL ADJUSTMENT PROCEDURE FOR E.V.F. SECTION FOR NV-RX31/RX33 SERIES

The following Equipment are required for adjustment of the Electric Viewfinder.

1. Test chart: Gray Scale chart/Color Bar Chart.
2. Tools : Plastic Tip driver

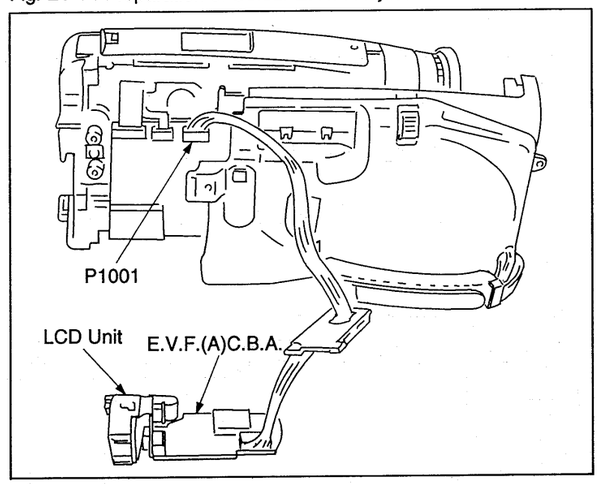
The following adjustment are Electric Viewfinder.

Preparation:	(A). Remove the Casing panels(Please refer to Fig.E1) (B). The camera unit must be completely aligned before viewfinder adjustment. (C). Please set the Color VR,Brightness VR to Center position. (D).Please turn off the demo mode for digital function, procedure for turn off the demo mode is as follows. Turn the Power sw within push the Stop key on Operation Panel. (If turn on the Power Sw within push the Play key,unit goes to Demo mode on)

ADJUSTMENT FOR MONITOR SECTION

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1.POWER VOLTAGE	1. Connect the Digital Volt meter to CL804.	————	CL804	1.Turn VR809 so that the voltage at CL804 become 11.98±0.05V
2.PICTURE CENTERING	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL807.	Gray Scale Chart	CL807	1.Turn VR808 so that T1 = T2±0.1usec. (Please refer to Fig.E2)
3.PEDESTAL LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR810 so that "A" level become 2.3±0.1V. (Please refer to Fig.E3)
4.COLOR G LEVEL	1.Aim the Camera at Gray Scale Chart. 2. Connect the oscilloscope to CL803.	Gray Scale Chart	CL803	1.Turn VR802 so that "A" level become 2.0±0.1V. (Please refer to Fig.E4)
5.TINT	1.Aim the Camera at Color Bar Chart. 2. Connect the oscilloscope to CL801.	Color Bar Chart	CL801	Adjust the VR803/VR804 so that the level of cyan,Green,Blue becomes equal. (Please refer to Fig.E5)
6.WHITE BALANCE	1.Aim the Camera at Color Bar Chart.	Color Bar Chart	E.V.F	Adjust the VR805/VR806 so that the white balance on the EVF screen become best position.

Fig. E1-1 : Preparation of Colour E.V.F. Adjustment



Note : Trigger for the Oscilloscope
To Trigger the Oscilloscope, following test point is used.

H rate : Video Output
V rate : PP3001-32(Head Amp Switching Pulse)

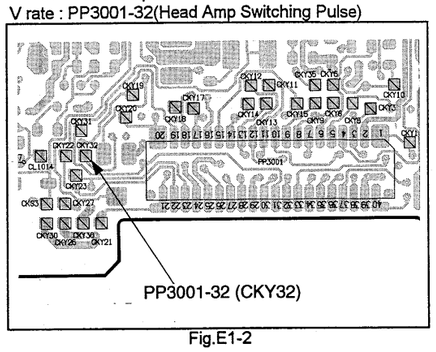


Fig.E1-2

PICTURE CENTERING

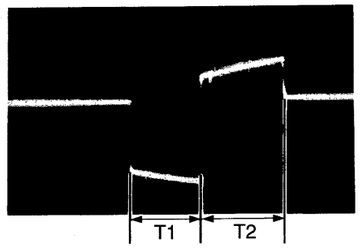


Fig. E2

PEDESTAL LEVEL

Fig. E3

COLOUR G LEVEL

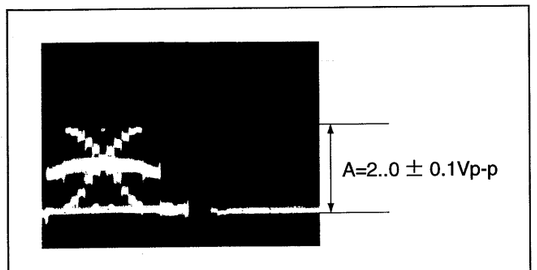


Fig. E4

TINT

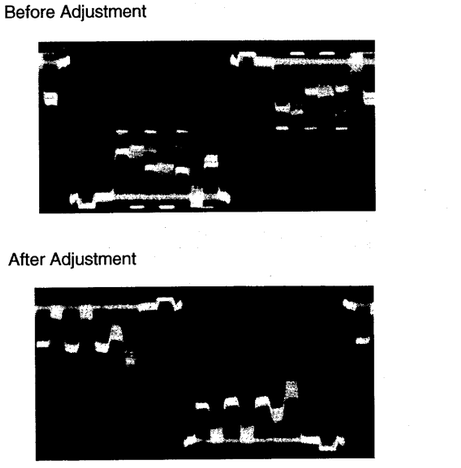
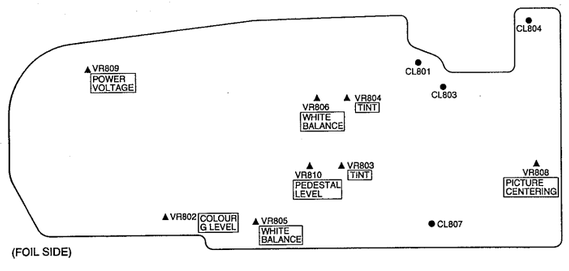
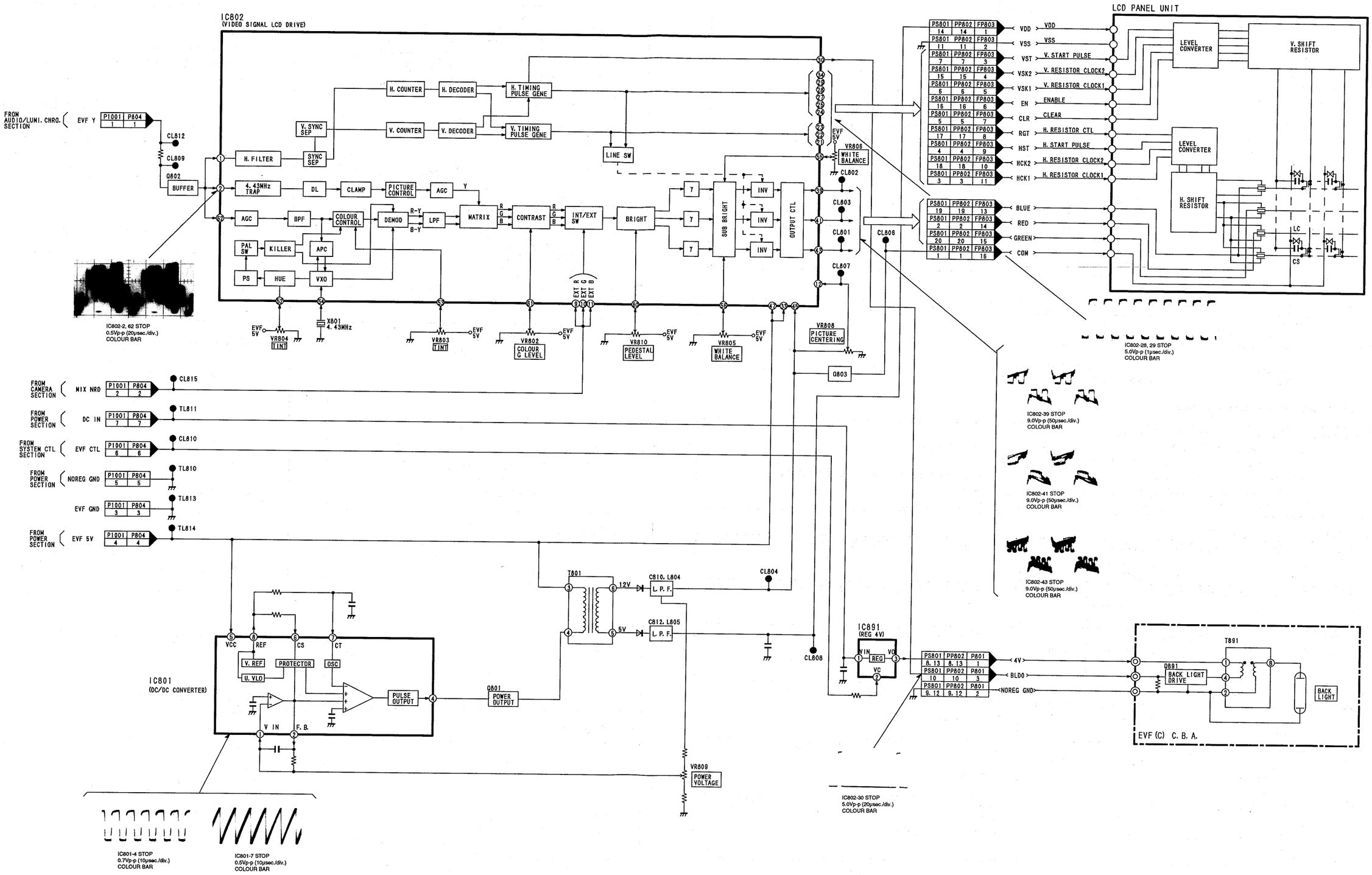


Fig. E5

LOCATION OF TEST POINTS & CTLS
<E.V.F. (A) C.B.A.>



6. COLOUR E.V.F. BLOCK DIAGRAM



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